NATIONAL OCCUPATIONAL CLASSIFICATION

2001

Occupational Descriptions

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Development of the *National Occupational Classification* – NOC 2001 would not have been possible without the significant contribution of a number of individuals and groups. Their commitment to excellence is evident in this revised edition of the foundation system used for organizing and collecting information on occupations in the Canadian economy.

Human Resources Development Canada undertook the revision of the NOC through the subject matter expertise of the Skills Information Division of the Human Resources Partnerships Directorate. The program of research was led by Clara Hamory with analytical consultation and review provided by Kay Darby and Ian McRae. Human Resources Development Canada's regional labour market information and economic experts also provided important input to the development of NOC 2001. Their continual advice and guidance is much appreciated.

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Introduction to Edition 2001 of the *National Occupational Classification* (NOC)

Background

The *National Occupational Classification* (NOC) is the nationally accepted taxonomy and organizational framework of occupations in the Canadian labour market. It is based on extensive occupational research, analysis and consultation conducted across the country. In the decade since its development the labour market has undergone significant changes. Technological advancement, globalization of the economy and the increasing importance of knowledge in many occupations have all contributed to occupational change. This change has been studied and reflected in a revised edition of the *National Occupational Classification* – NOC 2001.

The NOC is used to compile, analyze and communicate information about occupations. Occupational information is of critical importance for the provision of labour market and career intelligence, skill development, occupational forecasting, labour supply and demand analysis, employment equity and numerous other programs and services. It provides a standardized framework for organizing the world of work in a manageable, understandable and coherent system and has been successfully implemented in a number of major applications over the past decade.

The 2001 edition of the NOC replaces the original publication and the parallel 1991 *Standard Occupational Classification* (SOC) produced by Statistics Canada. The revised SOC is now entitled the *National Occupational Classification for Statistics* (NOC-S). NOC 2001 and the NOC-S fill the gaps that have been identified as shortcomings of the NOC system. These include a missing technical level for information technology occupations, inconsistencies in relation to the statistical structure and the challenges in capturing the emergence of new ways of working and new titles used in the labour market. NOC 2001, while conservative with respect to structural change, reflects the evolution occupations have undergone over the past decade.

Organizational Framework of NOC 2001

The NOC is a three-tiered hierarchical arrangement of occupational groups with successive levels of disaggregation.

26 Major Groups
- Each major group has a unique two-digit code number and is composed of one or more minor groups.

140 Minor Groups
- Each minor group has a unique three-digit code number and is composed of one or more unit groups. The first two digits of this code indicate the major group to which the minor group belongs.

520 Unit Groups
- Each unit group has a unique four-digit code. The first three digits of this code indicate the major and minor groups to which the unit group belongs.

A number of occupational titles are classified within each unit group. All occupational titles classified in the same unit group share the same four-digit unit group code. The title or label of the unit group represents the overall contents of the group.

The NOC revision process also included the revision of the NOC *Index of Titles*. Please refer to the introduction in the *Index of Titles* for details related to this terminological research project.

There are over 30,000 occupational titles included in the revised NOC system. Some titles are clearly occupations, such as *librarian* and *chef*, while others reflect specializations within an occupational area, such as *music librarian* and *pastry chef*. Still others represent a range of jobs, such as *furniture assembler* and *sawmill machine operator*.

These titles are used to describe the work performed by many individuals holding similar jobs within an occupational area. The list of titles in the NOC is not meant to be exhaustive, but attempts to cover the most commonly used and universally understood labels that identify work in the labour market.

The Structural Changes in NOC 2001

A program of research and consultation was carried out for the purposes of this revision exercise. The following table outlines the types of structural changes that have resulted from the revision initiative.

Minor Group Structural Changes

New Minor Groups	
217 Computer and Information Systems Professionals	**New** – Information technology minor group at the professional skill level.
228 Technical Occupations in Computer and Information Systems	**New** – Information technology minor group at the technical skill level.

Modified or Deleted Minor Groups	
216 Mathematicians, Statisticians and Actuaries	**Modified** – Information technology occupations moved to new minor group at professional level.
341 Assisting Occupations in Support of Health Services	**Modified** – Occupations from former minor group 663 are now included here.
644 Tour and Recreational Guides and Casino Occupations	**Modified** – Amusement attraction operator occupations moved to minor group 667. – Casino occupations remain here.
~~663~~ Elemental Medical and Hospital Assistants	**Deleted** – Occupations now included in minor group 341.
667 Other Occupations in Travel, Accommodation, Amusement and Recreation	**Modified** – Amusement attraction operator occupations from minor group 644 are now included here.

Unit Group Structural Changes

New Unit Groups	
2171 Information Systems Analysts and Consultants	**New** – Information technology group includes some occupations that were classified in former unit group 2162, Computer Systems Analysts.
2172 Database Analysts and Data Administrators	**New** – Information technology group at the professional skill level.
2173 Software Engineers	**New** – Includes some occupations that were classified in unit group 2147, Computer Engineers.
2174 Computer Programmers and Interactive Media Developers	**New** – Includes some occupations that were classified in former unit group 2163, Computer Programmers.
2175 Web Designers and Developers	**New** – Information technology group at the professional skill level.
2281 Computer and Network Operators and Web Technicians	**New** – Information technology group at the technical skill level that includes occupations classified in former unit group 1421, Computer Operators.
2282 User Support Technicians	**New** – Information technology group at the technical skill level.
2283 Systems Testing Technicians	**New** – Information technology group at the technical skill level.

Modified or Deleted Unit Groups	
0721 Facility Operation and Maintenance Managers	**Modified** – Now includes occupations from former unit group 0722.
~~0722~~ Maintenance Managers	**Deleted** – Occupations now included in unit group 0721.
1411 General Office Clerks	**Modified** – Now includes occupations from former unit group 1412.

~~1412~~ Typists and Word Processing Operators	**Deleted** – Occupations now included in unit group 1411.
~~1421~~ Computer Operators	**Deleted** – Occupations now included in new information technology unit group 2281.
~~2162~~ Computer Systems Analysts	**Deleted** – Occupations now included in new minor group 217 for information technology occupations at the professional level.
~~2163~~ Computer Programmers	**Deleted** – Occupations now included in minor group 217.
3223 Dental Technologists, Technicians and Laboratory Bench Workers	**Modified** – Now includes occupations from former unit group 3412. Was 3220 for statistical purposes.
~~3412~~ Dental Laboratory Bench Workers	**Deleted** – Occupations now included in unit group 3223. Was 3220 for statistical purposes.
3414 Other Assisting Occupations in Support of Health Services	**Modified** – Now includes occupations from former unit group 6631.
4214 Early Childhood Educators and Assistants	**Modified** – Now includes occupations from former unit group 6473. Was 6470 for statistical purposes.
6443 Casino Occupations	**Modified** – Amusement attraction operators, formerly part of this group, now included in unit group 6671.
~~6473~~ Early Childhood Educator Assistants	**Deleted** – Occupations now included in unit group 4214.
~~6631~~ Elemental Medical and Hospital Assistants	**Deleted** – Occupations now included in unit group 3414.
6641 Food Counter Attendants, Kitchen Helpers and Related Occupations	**Modified** – Now includes occupations from former unit group 6642.
~~6642~~ Kitchen and Food Service Helpers	**Deleted** – Occupations now included in unit group 6641.
6671 Operators and Attendants in Amusement, Recreation and Sport	**Modified** – Amusement attraction operators, formerly from unit group 6443, now included here. Was 6670 for statistical purposes.

7265 Welders and Related Machine Operators	**Modified** – Now includes occupations from former unit group 9515. Was 9510 for statistical purposes.
~~9515~~ Welding, Brazing and Soldering Machine Operators	**Deleted** – Occupations now included in unit group 7265.

Changes to Formerly Aggregated Unit Groups for Statistics	
0210 Engineering, Science and Architecture Managers	**Deleted** – Unit groups 0211, Engineering Managers, and 0212, Architecture and Science Managers, now disaggregated for statistical purposes.
0720 Facility Operation and Maintenance Managers	**Deleted** – Replaced by 0721, Facility Operation and Maintenance Managers.
2230 Civil Engineering Technologists and Technicians and Construction Estimators	**Deleted** – Unit groups 2231, Civil Engineers, and 2234, Construction Estimators, now disaggregated for statistical purposes.
3220 Dental Technicians and Laboratory Bench Workers	**Deleted** – Replaced by 3223, Dental Technologists, Technicians and Laboratory Bench Workers.
4160 Health and Social Policy Researchers, Consultants and Program Officers	**Deleted** – Unit groups 4164, Social Policy Researchers, Consultants and Program Officers, and 4165, Heath Policy Researchers, Consultants and Program Officers, now disaggregated for statistical purposes.
6470 Early Childhood Educators and Assistants	**Deleted** – Replaced by 4214, Early Childhood Educators and Assistants.
6670 Amusement Attraction Operators and Other Amusement Occupations	**Deleted** – Replaced by 6671, Operators and Attendants in Amusement, Recreation and Sport.
9510 Welders and Soldering Machine Operators	**Deleted** – Replaced by 7265, Welders and Related Machine Operators.

NOC Classification Criteria

The two major attributes of jobs used as classification criteria in developing the NOC are *skill level* and *skill type*. Other factors, such as industry and occupational mobility, are also taken into consideration.

Skill Level

Skill level is defined generally as the amount and type of education and training required to enter and perform the duties of an occupation. In determining skill level, the experience required for entry, and the complexity and responsibilities typical of an occupation are also considered in relation to other occupations.

Four skill level categories are identified in the NOC. Each minor and unit group is assigned to one of the skill levels.

The skill level categories are broad aggregates, reflecting four commonly accepted educational, training or preparatory routes for entering employment. Requirements for individual unit groups or occupations may overlap between the boundaries of the skill levels. For example, some occupations can be entered with either a university degree or a college diploma. When the entry requirements for a unit group or occupation reflect a range of possible educational and training specifications, skill level placement of the group was determined by considering several factors. These include the requirements most generally demanded by employers, the minor group context, complexity of overall responsibilities and knowledge requirements as well as further training and specialization acquired on the job.

The classification describes the educational and training requirements for *occupations*. However, the education and experience of particular job incumbents may not correspond exactly to the level described. Individuals may be over-qualified for their work or they may work in occupations for which the entry requirements have changed after they became employed.

It is important to note that the skill level categories are not intended to designate socio-economic status or prestige. Rather they are intended to reflect actual occupational entry requirements. These requirements are expressed in terms of the formal educational system and other types of training specified by employers.

Management occupations are not assigned to a skill level category. These occupations span the entire classification structure and are found in all sectors or areas of the labour market. Factors other than education and training (e.g., previous experience, ownership of real property and capital, ownership of intellectual property, inherent decision-making skills and organizational capabilities) are often more significant determinants for employment in management occupations.

The skill level categories of the NOC are outlined and defined in the chart that follows.

NOC SKILL LEVEL CRITERIA

	EDUCATION/TRAINING	OTHER
SKILL LEVEL A	• University degree (bachelor's, master's or doctorate)	
SKILL LEVEL B	• Two to three years of post-secondary education at community college, institute of technology or CÉGEP *or* • Two to five years of apprenticeship training *or* • Three to four years of secondary school and more than two years of on-the-job training, occupation-specific training courses or specific work experience	• Occupations with supervisory responsibilities are also assigned to skill level B. • Occupations with significant health and safety responsibilities (e.g., fire fighters, police officers and licensed practical nurses) are assigned to skill level B.
SKILL LEVEL C	• One to four years of secondary school education *or* • Up to two years of on-the-job training, training courses or specific work experience	
SKILL LEVEL D	• Short work demonstration or on-the-job training *or* • No formal educational requirements	

Skill Type

Skill type is defined as the type of work performed, although other factors related to skill type are also reflected in the NOC. One of these factors is similarity with respect to the educational discipline or field of study required for entry into an occupation. Another factor is the industry of employment where experience within an internal job ladder or within a specific industry is usually a prerequisite for entry.

Ten broad occupational categories, based on skill type, are identified in the NOC.

0. Management Occupations

This skill type category contains legislators, senior management occupations and middle management occupations.

1. Business, Finance and Administration

This category contains occupations that are concerned with providing financial and business services, administrative and regulatory services and clerical supervision and support services. Some occupations in this category are unique to the financial and business service sectors; however, most are found in all industries.

Often, occupations at skill levels A and B are supplied from educational programs specific to the profession or occupation. Some occupations at skill level B are also supplied from experienced workers in related clerical occupations.

2. Natural and Applied Sciences and Related Occupations

This category contains professional and technical occupations in the sciences, including physical and life sciences, engineering, architecture and information technology.

Occupations in this skill type category require post-secondary education in an appropriate scientific discipline. Progression from occupations in skill level B to occupations in skill level A is not usually possible without completion of additional formal education.

3. Health Occupations

This category includes occupations concerned with providing health care services directly to patients and occupations that provide support to professional and technical staff. Most occupations in this skill type category require post-secondary education in a related health care program. Progression from occupations in skill level B to occupations in skill level A is not usually possible without completion of additional formal education. Occupations in skill level C require short training programs.

4. Occupations in Social Science, Education, Government Service and Religion

This skill type category includes a range of occupations that are concerned with law, teaching, counselling, conducting social science research, developing government policy, and administering government and other programs. Occupations in this skill type category usually require completion of a related post-secondary program. Progression from occupations in skill level B to occupations in skill level A is not usually possible without completion of additional formal education.

5. Occupations in Art, Culture, Recreation and Sport

This skill type category includes professional and technical occupations related to art and culture, including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums. It also includes occupations in recreation and sport.

This category is characterized by occupations which are linked by subject matter to formal post-secondary educational programs but which have, for the most part, a range of acceptable qualifications. Occupations in this category are also characterized by a requirement for creative talent, such as for designers and performers, or for athletic ability. Unit groups which contain occupations for which university graduation in a professional discipline is usually required, such as journalism or library science, have been classified in skill level A. Most others have been classified in skill level B in recognition of the wide range of entry routes that are possible.

6. Sales and Service

This skill type category contains sales occupations, personal and protective service occupations and occupations related to the hospitality and tourism industries.

Occupations in skill level B of this category can be linked, for the most part, to formal post-secondary or occupation-specific training programs. Others are characterized by periods of formal on-the-job training other than apprenticeship. Progression from occupations in skill level C or D to those in skill level B usually requires completion of a related training program. Some progression through experience is possible for supervisory positions.

7. Trades, Transport and Equipment Operators and Related Occupations

This skill type category includes construction and mechanical trades, trades supervisors and contractors and operators of transportation and heavy equipment. These occupations are found in a wide range of industrial sectors, with many occurring in the construction and transportation industries.

This category includes most of the apprenticeable trades, including all of those related to the construction industry. Other occupations in this category usually require completion of college or other programs combined with on-the-job training. Progression to supervisory or self-employed contractor status is possible with experience. There is limited mobility or transferability of skills among occupations in this category due to specific apprenticeship, training and licensing requirements for most occupations.

8. Occupations Unique to Primary Industry

This category contains supervisory and equipment operation occupations in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Most occupations in this category are industry specific and do not occur outside of the primary industries.

Occupations within skill level B of this category generally require completion of college or other training programs. Some, however, are characterized by on-the-job training and progression through experience.

9. Occupations Unique to Processing, Manufacturing and Utilities

This category contains supervisory and production occupations in manufacturing, processing and utilities.

Occupations in this category are characterized by internal progression and on-the-job training. Workers typically start out in these occupations at entry-level positions and progress to increasingly higher skilled occupations through experience. Mobility between employers or industries may be limited by seniority provisions of collective agreements. The occupations in skill level B of this category are increasingly technical in nature and post-secondary training programs are available for some.

Industry

Industry and occupation are separate variables which can be cross-tabulated to provide detailed information on employment. However, many occupations are found almost solely within one particular industry. For example, mining and automobile assembly occupations occur each within their respective industrial sectors.

During the research and development of the NOC, it was realized that in many industries, occupational mobility is determined more by internal job ladders than by functional specialization. In consequence, some unit groups include workers of a particular skill level within a specific industry. Although the occupational breakdown resembles in part an industrial breakdown, the variables remain separate and distinct.

Industry was used in the development of classification categories for senior management occupations, for occupations unique to primary industry and for occupations in manufacturing, processing and utilities.

Occupational Mobility

In developing the NOC, an effort was made to consider mobility or transferability of skills between occupations. The objective was to develop unit groups where the potential for mobility or substitution of workers would be greater within the group than between groups. Movement within groups usually follows when the group is homogeneous in skill level and skill type, indicating increased potential for transferability of competencies. Movement between groups usually reflects a change in skill level (e.g., vertical mobility) or a change in skill type (e.g., acquisition of new specialized skills).

The degree of occupational mobility that exists for unit groups varies. Many unit group descriptions include a statement that indicates the potential for, and type of, mobility that characterizes the unit group.

Other Classification Considerations

In addition to the previously mentioned criteria, other factors were considered in determining the boundaries between unit groups and the contents of each group. These additional factors were the size of the unit groups and the codeability or operational feasibility of the groups. Codeability relates to the ease of accurately coding or assigning reported job titles from survey respondents to the occupational groups of the classification.

The size (or estimated number of workers) of the unit group was considered for reasons of statistical reliability and confidentiality. Generally, unit groups which contain fewer than 1,000 Canadian workers have not been delineated.

Because the NOC structure is used to code responses to the Census and other surveys, it must provide a set of unit groups that can be used for this operational application. The insufficient precision of some survey responses and ambiguities of language were given consideration in finalizing the unit groups.

The NOC Matrix

A matrix classifying the NOC minor groups has been developed to provide an overview of the entire classification and to show the organization of the groups by both skill level and skill type.

The matrix is found inside the front cover of this publication.

The horizontal rows of the matrix correspond to the four skill level categories. The vertical columns of the matrix correspond to the nine skill type categories. The 10th skill type category, management, is organized across the top of the matrix. Within each cell of the matrix, the minor groups that belong to each skill level and skill type category are listed.

Usually each cell of the matrix constitutes an NOC major group, except for management, which spans all the skill type categories. For example, the seven minor groups listed in the matrix cell for *Skill Level D* and *Sales and Service* combine to form major group 66 – *Elemental Sales and Service Occupations*.

Issues and Conventions of the NOC

Some of the many issues that were encountered in the development of the NOC and the conventions adopted in response, are discussed in the following paragraphs.

Management Occupations

Management occupations present a special problem for reliable coding of occupational survey responses. In many cases there is little indication of the level of responsibility, the size of the enterprise or division managed, or the field of specialization.

To be of practical use, a classification of managers must be a compromise between the theoretically optimal and the practical solutions.

Senior management occupations (in major group 00) have been divided on the basis of industry of employment into five unit groups. The breakdown was originally made according to the *Standard Industrial Classification* (SIC) and was changed in this revision to conform to the *North American Industry Classification System* (NAICS).

Middle and Other Management Occupations are divided into 16 minor groups and 38 unit groups on the basis of specialization (e.g., *Purchasing Managers*) or industry of employment (e.g., *Postal and Courier Services Managers)*. In certain cases (e.g., *Transportation Managers*) groups defined by industry also contain managers in that specialization regardless of their industry of employment. The breakdown by industry corresponds to groups in the NAICS.

Management occupations have not been assigned to a skill level category. It is recognized that there is a range of acceptable educational and training requirements for managerial occupations.

Supervisors

Supervisors and foremen/women have generally been classified in skill level B.

In most cases, professional and technical occupations are supervised by managerial or professional personnel respectively. However, where supervisors are identified for professional and technical groups, they are generally classified in the same unit groups as the occupations supervised.

Supervisors in the following occupational categories have been classified in supervisor unit groups or minor groups separate from the workers supervised:

- clerical and administrative occupations
- nursing occupations
- sales and service occupations
- trades and transport and equipment operators
- occupations in primary industry
- occupations unique to processing, manufacturing and utilities.

Most minor and unit groups in the occupational categories listed above have a corresponding supervisory group. Occasionally, as in minor group 626 *Police Officers and Firefighters*, supervision is provided by managers and there is no corresponding supervisory group in major group 62.

Trades

All apprenticeable trades are included in skill level B. Their inclusion does not imply an exact equivalence of skill between all trades, but rather that they occupy a range that lies within the boundaries of this skill level category. Information on entry requirements is provided within each unit group description.

Inspectors, Testers and Graders

Generally, inspectors who require post-secondary education have been classified in separate unit groups in skill level B or with technicians and technologists, also in skill level B. Other non-technical inspectors, testers, graders and samplers have been included either in separate unit groups covering occupations in processing industries or in unit groups of assemblers and fabricators in manufacturing industries. This is reflective of patterns of employment found within industries and the increasing responsibility for quality control that is placed on manufacturing production workers.

Apprentices and Trainees

Apprentices and trainees have been classified in the same unit groups as the occupations for which they are training. Similarly, interns, residents and articling students are classified with their respective professional groups. This convention has been adopted of necessity to prevent a proliferation of unit groups of apprentices. It is not intended to imply equivalence or interchangeability of apprentices or trainees with fully qualified workers.

NOC Coding System

One of the features of the *National Occupational Classification* is its system of codes. Each major group, minor group and unit group has its own unique code.

A two-digit code is assigned at the major group level. A third digit is added at the minor group level and a fourth digit is added at the unit group level.

Major Group *31* – Professional Occupations in Health

Minor Group *314* – Professional Occupations in Therapy and Assessment

Unit Group *3142* – Physiotherapists

The first two digits of each code convey meaning with respect to the group's skill type and skill level category.

For all non-management occupations, the **first digit** of each code identifies the major, minor and unit group as belonging to one of the **skill type** categories.

Similarly, for all non-management occupations, the **second digit** of each code identifies the major, minor and unit group as belonging to one of the four **skill level** categories.

For management occupations, the first two digits also convey meaning. The first digit is always **0** to convey management, while the second digit conveys the skill type category where the management occupation is found.

The following charts summarize and illustrate the meanings embedded in the coding system.

When the first digit is...	***...the skill type category is***
1	Business, Finance and Administration Occupations
2	Natural and Applied Sciences and Related Occupations
3	Health Occupations
4	Occupations in Social Science, Education, Government Service and Religion
5	Occupations in Art, Culture, Recreation and Sport
6	Sales and Service Occupations
7	Trades, Transport and Equipment Operators and Related Occupations
8	Occupations Unique to Primary Industry
9	Occupations Unique to Processing, Manufacturing and Utilities
When the second digit is...	***...the skill level category is***
1	Skill Level A (Professional Occupations)
2 or 3	Skill Level B (Technical, Paraprofessional and Skilled Occupations
4 or 5	Skill Level C (Intermediate Occupations)
6	Skill Level D (Labouring and Elemental Occupations)

Important Note: This applies to all occupations except management occupations. For management, the first digit is always 0 and the second digit represents the skill type categories, from 1 to 9, as above.

Examples of Codes and their Meaning

9231

The first digit indicates skill type category 9
Occupations Unique to Processing, Manufacturing and Utilities

The second digit indicates skill level category B

- - - - - - - - -

6443

The first digit indicates skill type category 6
Sales and Service Occupations

The second digit indicates skill level category C

- - - - - - - - -

0212

The first digit 0 always indicates a management occupation

The second digit indicates skill type category 2
Natural and Applied Sciences and Related Occupations

Format of Unit Group Descriptions

Each NOC unit group description consists of several standardized sections which define and describe its content.

Lead statement

This section provides a general description of the content and boundaries of the unit group and indicates the main activities of occupations within the unit group. It also indicates the kinds of industries or establishments in which the occupations are found. The list of places of employment is not always exhaustive, but can assist in clarifying the occupations described and in differentiating them from occupations found in other groups.

Examples of titles classified in this unit group

This section is a list of titles commonly used in the labour market. The titles are intended to illustrate the contents and range of the occupational group. This is not an exhaustive list of titles; additional occupational titles are included in the alphabetical *Index of Titles*.

Main duties

This section describes the main duties of occupations in the unit group. Depending on the contents of the unit group, one of three formats was selected for describing main duties.

- A series of statements that can be applied to all occupations in the unit group. This format was selected for unit groups that contain a single core occupation, such as 2146

Aerospace Engineers and 1242 *Legal Secretaries*. This format was also selected for unit groups that contain a range of related titles that nevertheless share a set of common duties, such as 9512 *Forging Machine Operators* and 1441 *Administrative Clerks*.

- Two or more sub-sets of occupations with a series of statements that apply to each component. This format was selected for unit groups that consist of two or more sub-components which, while similar enough to be in the same unit group, can be described separately. Examples of unit groups with this format are 3141 *Audiologists and Speech-Language Pathologists* and 5125 *Translators, Terminologists and Interpreters*.

- A series of brief descriptive statements that are linked to specific occupations within a group. This format was selected for unit groups that contain a series of occupations which, while similar enough to be in the same unit group, can be described separately. Examples of unit groups with this format include 6463 *By-law Enforcement and Other Regulatory Officers, n.e.c.* and 5226 *Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts*.

For some unit groups, a statement appears in italics at the end of the main duties section. This identifies specializations that exist within the occupational area encompassed by the unit group.

Employment requirements

This section describes the employment requirements for the unit group. Several types of requirements are identified in this section and are listed in the following order.

- Type and level of formal education (for example, secondary school, college diploma, university degree). Efforts were made to be as specific as possible, though many unit groups have a range of acceptable educational requirements.
- Specific training (for example, apprenticeship training, on-the-job training, occupation-specific training courses)
- Experience in another occupation (for example, supervisors usually require several years of experience in the occupation that they supervise)
- Licences, certificates or registration
- Other requirements (for example, athletic ability or artistic talent)

This section does not attempt to describe personal suitability requirements that are assessed by employers as part of the hiring process.

Some occupations have very definite employment requirements while for others, there is no consensus or there may exist a range of acceptable requirements. To reflect this variation in the labour market, this section describes employment requirements using the following terminology:

- "... is required" (to indicate a definite requirement);
- "...is usually required" (to indicate something that is usually required by the majority of employers, but not always required by all employers); and
- "... may be required" (to indicate something that may be required by some employers, but on a less frequent basis).

Note: For reasons of brevity, in this section the term college includes the following types of post-secondary institutions: community colleges, CÉGEPS, technical institutes, trade schools and agricultural colleges. In some provinces it may also include private training organizations, music conservatories and other non-degree granting institutions.

Additional information

This section appears in some unit group descriptions. It provides information on the following:

- progression to other occupations (such as supervisory or management positions);
- mobility patterns (for example, identifying occupations that are part of internal lines of progression);
- trends and forthcoming changes in the unit group's employment requirements; and

- other information to clarify and define the unit group.

Classified elsewhere

This section clarifies the boundaries of the unit group by identifying other unit groups or related occupations that are classified elsewhere. Unit groups or individual occupations are cited in this section when they bear a functional similarity to the unit group or when similar titles occur.

Career Development Version of the NOC

The *Career Handbook* is the counselling version of the NOC that is used by career, educational and employment counselling professionals, vocational rehabilitation specialists and a wide range of other users. It is used primarily for career exploration and development purposes and provides a basis for facilitating informed career decision-making. The *Career Handbook* is also the foundation for many career development products and resources.

The *Career Handbook* includes ratings on occupational descriptor scales such as aptitudes, interests, functional data/people/things activities, physical activities, environmental conditions and education/training indicators. Descriptor profiles, based on these ratings, provide the linkage between occupations and worker characteristics. This information is of critical importance in the areas of skill development and career planning.

Relationship between NOC 2001 and the *National Occupational Classification for Statistics*

The NOC forms the basis of the NOC-S which is used by Statistics Canada to collect and report data on occupations from the Census and other surveys.

The revision exercise had as one of its objectives a further streamlining of the classification to unify and eliminate previous differences. A Statistics Canada and HRDC joint working committee was established to achieve consensus on discrepancies between the two publications. The revisions have led to an improved classification structure from the perspectives of both departments. The areas outlined below indicate differences that still exist primarily due to the operational conventions to which Statistics Canada must adhere.

The NOC and the NOC-S differ in their classification of military personnel. The NOC unit groups for military occupations (0643 *Commissioned Officers, Armed Forces* and 6464 *Occupations Unique to the Armed Forces*) are defined to include only those military personnel whose occupations do not have a civilian counterpart (e.g., infantry officers, artillery soldiers). Those military personnel whose occupations do have a civilian counterpart are classified in the unit group appropriate to the occupation (e.g., dental officers are classified with dentists and military police officers are classified with police officers). On the other hand, all military personnel, regardless of whether their occupations have civilian counterparts, are classified to the corresponding NOC-S unit groups: *Commissioned Officers, Armed Forces* or *Other Ranks, Armed Forces*.

The minor groups and broad occupational categories of the NOC-S are the same as those of the NOC, except to the extent of the variations created by the differences in the treatment of the military.

The major group level of the NOC-S structure represents an alternate statistical aggregation of the NOC and consists of 47 major groups based on skill type. The table that follows identifies the NOC major groups and the corresponding NOC-S major groups. This alternate aggregation enables the statistical balancing of proportions of the labour force where additional division of the NOC two-digit groups is possible due to population sizes. It is important to note that the NOC and NOC-S are identical at the unit group and minor group levels.

Statistics Canada has implemented a two-part numbering system in its publication to link the statistical aggregation to the NOC codes. The first part of the numbering system indicates the placement of the minor and unit groups within the NOC-S aggregation structure, and the second part of the numbering system, following a decimal point, represents the NOC code. This two-part numbering system allows users to relate data produced by Statistics Canada to the minor and unit groups of the NOC. The NOC and the

NOC-S represent one classification framework for measuring economic activity in the Canadian labour market and for providing information about the work of Canadians.

The structure of the NOC-S is found in the Appendix of this publication. Further information about the NOC-S can be obtained from:

Standards Division
Statistics Canada
Jean Talon Building, 12th Floor
Ottawa, Ontario
K1A 0T6

Phone: (613) 951-8576
Fax: (613) 951-8578
Internet: http://www.statcan.ca/english/Subjects/Standard/standard_classifications.htm

Skill Type Categories and Major Groups of the NOC	Broad Occupational Categories and Major Groups of the NOC-S
NOC	**NOC-S**
MANAGEMENT OCCUPATIONS	
00 Senior Management Occupations **01-09** Middle and Other Management Occupations	**A0** Senior Management Occupations **A1** Specialist Managers **A2** Managers in Retail Trade, Food and Accommodation Services **A3** Other Managers n.e.c.
BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS	
11 Professional Occupations in Business and Finance **12** Skilled Administrative and Business Occupations **14** Clerical Occupations	**B0** Professional Occupations in Business and Finance **B1** Finance and Insurance Administrative Occupations **B2** Secretaries **B3** Administrative and Regulatory Occupations **B4** Clerical Supervisors **B5** Clerical Occupations
NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS	
21 Professional Occupations in Natural and Applied Sciences **22** Technical Occupations Related to Natural and Applied Sciences	**C0** Professional Occupations in Natural and Applied Sciences **C1** Technical Occupations Related to Natural and Applied Sciences
HEALTH OCCUPATIONS	
31 Professional Occupations in Health **32** Technical and Skilled Occupations in Health **33** Assisting Occupations in Support of Health Services	**D0** Professional Occupations in Health **D1** Nurse Supervisors and Registered Nurses **D2** Technical and Related Occupations in Health **D3** Assisting Occupations in Support of Health Services

NOC	NOC-S
OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION	
41 Professional Occupations in Social Science, Education, Government Services and Religion	**E0** Judges, Lawyers, Psychologists, Social Workers, Ministers of Religion, and Policy and Program Officers
42 Paraprofessional Occupations in Law, Social Services, Education and Religion	**E1** Teachers and Professors
	E2 Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.
OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT	
51 Professional Occupations in Art and Culture	**F0** Professional Occupations in Art and Culture
52 Technical and Skilled Occupations in Art, Culture, Recreation and Sport	**F1** Technical Occupations in Art, Culture, Recreation and Sport
SALES AND SERVICE OCCUPATIONS	
62 Skilled Sales and Service Occupations	**G0** Sales and Service Supervisors
64 Intermediate Sales and Service Occupations	**G1** Wholesale, Technical, Insurance, Real Estate Sales Specialists, and Retail, Wholesale and Grain Buyers
66 Elemental Sales and Service Occupations	**G2** Retail Salespersons and Sales Clerks
	G3 Cashiers
	G4 Chefs and Cooks
	G5 Occupations in Food and Beverage Service
	G6 Occupations in Protective Services
	G7 Occupations in Travel and Accommodation including Attendants in Recreation and Sport
	G8 Childcare and Home Support Workers
	G9 Sales and Service Occupations n.e.c.

<table>
<tr><th>NOC</th><th>NOC-S</th></tr>
<tr><td colspan="2">TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS</td></tr>
<tr><td>72-73 Trades and Skilled Transport and Equipment Operators
74 Intermediate Occupations in Transport, Equipment Operation, Installation and Maintenance
76 Trades Helpers, Construction Labourers and Related Occupations</td><td>H0 Contractors and Supervisors in Trades and Transportation
H1 Construction Trades
H2 Stationary Engineers, Power Station Operators and Electrical Trades and Telecommunications Occupations
H3 Machinists, Metal Forming, Shaping and Erecting Occupations
H4 Mechanics
H5 Other Trades n.e.c.
H6 Heavy Equipment and Crane Operators including Drillers
H7 Transportation Equipment Operators and Related Workers, excluding Labourers
H8 Trades Helpers, Construction and Transportation Labourers and Related Occupations</td></tr>
<tr><td colspan="2">OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY</td></tr>
<tr><td>82 Skilled Occupations in Primary Industry
84 Intermediate Occupations in Primary Industry
86 Labourers in Primary Industry</td><td>I0 Occupations Unique to Agriculture excluding Labourers
I1 Occupations Unique to Forestry Operations, Mining, Oil and Gas Extraction, and Fishing, excluding Labourers
I2 Primary Production Labourers</td></tr>
<tr><td colspan="2">OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES</td></tr>
<tr><td>92 Processing, Manufacturing and Utilities Supervisors and Skilled Operators
94-95 Processing and Manufacturing Machine Operators and Assemblers
96 Labourers in Processing, Manufacturing and Utilities</td><td>J0 Supervisors in Manufacturing
J1 Machine Operators in Manufacturing
J2 Assemblers in Manufacturing
J3 Labourers in Processing, Manufacturing and Utilities</td></tr>
</table>

Note: The NOC-S major groups reflect the alternate statistical aggregation of the NOC unit groups.

NOC Research and Development

The following section outlines the methods and procedures that were implemented to revise the NOC. For further details on the research undertaken for the initial development of the NOC, readers may refer to the Introduction to the previous edition.

Methodology

Research on occupational evolution, work skills and competencies has been ongoing since the implementation of the NOC in the early 1990s. A large contributing factor to the research has been the input from public and private sector users identifying particular occupational areas that required additional analysis. The changes in some of these occupational areas were significant enough to require modifications to the structure of the classification system itself.

Research analysts were assigned responsibility for particular NOC skill type categories, including management occupations. Based on input from a wide range of sources that included labour market analysts, sector councils, immigration specialists, counsellors and professional organizations, the analysts determined the depth of investigation required for their assigned occupational areas.

A multifaceted approach to research was established to make use of the large amount of material that had been collected since the implementation of the NOC. Analysts consulted documents that included secondary sources, such as sector studies, occupational analyses, occupational standards and research papers and articles. Data from other sources, such as a survey of entry requirements for regulated professions and trades, Essential Skills research, the Census and the Labour Force Survey, were also consulted.

Analysts determined the extent of research required for their particular areas of responsibility. For many occupations, validation of the original NOC information indicated that there was general satisfaction with the content of the occupational groups and their placement within the overall classification structure. For other groups the information in the main duties and employment requirements sections required significant updating. Internet-based research, data from secondary sources and interviews with key occupational specialists provided the basis for the proposed revisions in these areas. Revisions were verified with occupational contacts.

A few occupational areas of the economy had undergone significant restructuring or modification. In-depth research was necessary to examine both the content and the positioning of these occupations in the classification structure to reflect more accurately the reality of the current labour market. These areas included information technology occupations, call centre services, electronic commerce, clerical work, health care support, recycling and manufacturing. The impact of technology on work in many occupational areas such as telecommunications, new or interactive media, publishing, and computer-controlled machining operations in industry, was also studied. Research projects and surveys were conducted by academics, private research consultants and firms, divisions within Statistics Canada and in conjunction with large research initiatives undertaken by some sector council organizations.

Procedures

Following the analysis of research findings, the compilation of information from other sources and its incorporation in a standardized NOC revision format, the work was submitted to an internal HRDC review committee for approval. The proposed revisions were then forwarded to Statistics Canada for internal review to assess implementation concerns related to coding, structural consistency and other statistical considerations. The joint working committee met to discuss identified issues and to achieve consensus on final decisions.

Contact Information

For further information about the *National Occupational Classification 2001* and related occupational systems, contact:

Skills Information Division
Human Resources Partnerships Directorate
Human Resources Development Canada
140 Promenade du Portage
Phase IV, 5th Floor
Ottawa/Hull
K1A 0J9

Phone: (819) 994-4422
Fax: (819) 997-0227
Internet: http://www.hrdc-drhc.gc.ca/noc

NOC Major Group Structure

00	Senior Management Occupations
01-09	Middle and Other Management Occupations
11	Professional Occupations in Business and Finance
12	Skilled Administrative and Business Occupations
14	Clerical Occupations
21	Professional Occupations in Natural and Applied Sciences
22	Technical Occupations Related to Natural and Applied Sciences
31	Professional Occupations in Health
32	Technical and Skilled Occupations in Health
34	Assisting Occupations in Support of Health Services
41	Professional Occupations in Social Science, Education, Government Services and Religion
42	Paraprofessional Occupations in Law, Social Services, Education and Religion
51	Professional Occupations in Art and Culture
52	Technical and Skilled Occupations in Art, Culture, Recreation and Sport
62	Skilled Sales and Service Occupations
64	Intermediate Sales and Service Occupations
66	Elemental Sales and Service Occupations
72-73	Trades and Skilled Transport and Equipment Operators
74	Intermediate Occupations in Transport, Equipment Operation, Installation and Maintenance
76	Trades Helpers, Construction Labourers and Related Occupations
82	Skilled Occupations in Primary Industry
84	Intermediate Occupations in Primary Industry
86	Labourers in Primary Industry
92	Processing, Manufacturing and Utilities Supervisors and Skilled Operators
94-95	Processing and Manufacturing Machine Operators and Assemblers
96	Labourers in Processing, Manufacturing and Utilities

NOC Major and Minor Group Structure

MANAGEMENT OCCUPATIONS

Major Group 00
SENIOR MANAGEMENT OCCUPATIONS

001	Legislators and Senior Management

Major Group 01-09
MIDDLE AND OTHER MANAGEMENT OCCUPATIONS

011	Administrative Services Managers
012	Managers in Financial and Business Services
013	Managers in Communication (Except Broadcasting)
021	Managers in Engineering, Architecture, Science and Information Systems
031	Managers in Health, Education, Social and Community Services
041	Managers in Public Administration
051	Managers in Art, Culture, Recreation and Sport
061	Sales, Marketing and Advertising Managers
062	Managers in Retail Trade
063	Managers in Food Service and Accommodation
064	Managers in Protective Service
065	Managers in Other Services
071	Managers in Construction and Transportation
072	Facility Operation and Maintenance Managers
081	Managers in Primary Production (Except Agriculture)
091	Managers in Manufacturing and Utilities

BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS

Major Group 11
PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

111	Auditors, Accountants and Investment Professionals
112	Human Resources and Business Service Professionals

Major Group 12
SKILLED ADMINISTRATIVE AND BUSINESS OCCUPATIONS

121	Clerical Supervisors
122	Administrative and Regulatory Occupations
123	Finance and Insurance Administrative Occupations
124	Secretaries, Recorders and Transcriptionists

Major Group 14
CLERICAL OCCUPATIONS

141	Clerical Occupations, General Office Skills
142	Office Equipment Operators
143	Finance and Insurance Clerks
144	Administrative Support Clerks
145	Library, Correspondence and Related Information Clerks
146	Mail and Message Distribution Occupations
147	Recording, Scheduling and Distributing Occupations

NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

Major Group 21
PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

211	Physical Science Professionals
212	Life Science Professionals
213	Civil, Mechanical, Electrical and Chemical Engineers
214	Other Engineers
215	Architects, Urban Planners and Land Surveyors
216	Mathematicians, Statisticians and Actuaries
217	Computer and Information Systems Professionals

Major Group 22
TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

221	Technical Occupations in Physical Sciences
222	Technical Occupations in Life Sciences
223	Technical Occupations in Civil, Mechanical and Industrial Engineering
224	Technical Occupations in Electronics and Electrical Engineering
225	Technical Occupations in Architecture, Drafting, Surveying and Mapping
226	Other Technical Inspectors and Regulatory Officers
227	Transportation Officers and Controllers
228	Technical Occupations in Computer and Information Systems

HEALTH OCCUPATIONS

Major Group 31
PROFESSIONAL OCCUPATIONS IN HEALTH

311	Physicians, Dentists and Veterinarians
312	Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals
313	Pharmacists, Dietitians and Nutritionists
314	Therapy and Assessment Professionals
315	Nurse Supervisors and Registered Nurses

Major Group 32
TECHNICAL AND SKILLED OCCUPATIONS IN HEALTH

321 Medical Technologists and Technicians (Except Dental Health)
322 Technical Occupations in Dental Health Care
323 Other Technical Occupations in Health Care (Except Dental)

Major Group 34
ASSISTING OCCUPATIONS IN SUPPORT OF HEALTH SERVICES

341 Assisting Occupations in Support of Health Services

OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION

Major Group 41
PROFESSIONAL OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICES AND RELIGION

411 Judges, Lawyers and Quebec Notaries
412 University Professors and Assistants
413 College and Other Vocational Instructors
414 Secondary and Elementary School Teachers and Educational Counsellors
415 Psychologists, Social Workers, Counsellors, Clergy and Probation Officers
416 Policy and Program Officers, Researchers and Consultants

Major Group 42
PARAPROFESSIONAL OCCUPATIONS IN LAW, SOCIAL SERVICES, EDUCATION AND RELIGION

421 Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.[*]

OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

Major Group 51
PROFESSIONAL OCCUPATIONS IN ART AND CULTURE

511 Librarians, Archivists, Conservators and Curators
512 Writing, Translating and Public Relations Professionals
513 Creative and Performing Artists

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[*] n.e.c = not elsewhere classified

Major Group 52
TECHNICAL AND SKILLED OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

521	Technical Occupations in Libraries, Archives, Museums and Art Galleries
522	Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
523	Announcers and Other Performers
524	Creative Designers and Craftspersons
525	Athletes, Coaches, Referees and Related Occupations

SALES AND SERVICE OCCUPATIONS

Major Group 62
SKILLED SALES AND SERVICE OCCUPATIONS

621	Sales and Service Supervisors
622	Technical Sales Specialists, Wholesale Trade
623	Insurance and Real Estate Sales Occupations and Buyers
624	Chefs and Cooks
625	Butchers and Bakers
626	Police Officers and Firefighters
627	Technical Occupations in Personal Service

Major Group 64
INTERMEDIATE SALES AND SERVICE OCCUPATIONS

641	Sales Representatives, Wholesale Trade
642	Retail Salespersons and Sales Clerks
643	Occupations in Travel and Accommodation
644	Tour and Recreational Guides and Casino Occupations
645	Occupations in Food and Beverage Service
646	Other Occupations in Protective Service
647	Childcare and Home Support Workers
648	Other Occupations in Personal Service

Major Group 66
ELEMENTAL SALES AND SERVICE OCCUPATIONS

661	Cashiers
662	Other Sales and Related Occupations
664	Food Counter Attendants, Kitchen Helpers and Related Occupations
665	Security Guards and Related Occupations
666	Cleaners
667	Other Occupations in Travel, Accommodation, Amusement and Recreation
668	Other Elemental Service Occupations

TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS

Major Group 72-73

TRADES AND SKILLED TRANSPORT AND EQUIPMENT OPERATORS

721 Contractors and Supervisors, Trades and Related Workers
722 Supervisors, Railway and Motor Transportation Occupations
723 Machinists and Related Occupations
724 Electrical Trades and Telecommunication Occupations
725 Plumbers, Pipefitters and Gas Fitters
726 Metal Forming, Shaping and Erecting Trades
727 Carpenters and Cabinetmakers
728 Masonry and Plastering Trades
729 Other Construction Trades
731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)
732 Automotive Service Technicians
733 Other Mechanics
734 Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations
735 Stationary Engineers and Power Station and System Operators
736 Train Crew Operating Occupations
737 Crane Operators, Drillers and Blasters
738 Printing Press Operators, Commercial Divers and Other Trades and Related Occupations, n.e.c.

Major Group 74

INTERMEDIATE OCCUPATIONS IN TRANSPORT, EQUIPMENT OPERATION, INSTALLATION AND MAINTENANCE

741 Motor Vehicle and Transit Drivers
742 Heavy Equipment Operators
743 Other Transport Equipment Operators and Related Workers
744 Other Installers, Repairers and Servicers
745 Longshore Workers and Material Handlers

Major Group 76

TRADES HELPERS, CONSTRUCTION LABOURERS AND RELATED OCCUPATIONS

761 Trades Helpers and Labourers
762 Public Works and Other Labourers, n.e.c.

OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

Major Group 82
SKILLED OCCUPATIONS IN PRIMARY INDUSTRY

821	Supervisors, Logging and Forestry
822	Supervisors, Mining, Oil and Gas
823	Underground Miners, Oil and Gas Drillers and Related Workers
824	Logging Machinery Operators
825	Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture
826	Fishing Vessel Masters and Skippers and Fishermen/women

Major Group 84
INTERMEDIATE OCCUPATIONS IN PRIMARY INDUSTRY

841	Mine Service Workers and Operators in Oil and Gas Drilling
842	Logging and Forestry Workers
843	Agriculture and Horticulture Workers
844	Other Fishing and Trapping Occupations

Major Group 86
LABOURERS IN PRIMARY INDUSTRY

861	Primary Production Labourers

OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

Major Group 92
PROCESSING, MANUFACTURING AND UTILITIES SUPERVISORS AND SKILLED OPERATORS

921	Supervisors, Processing Occupations
922	Supervisors, Assembly and Fabrication
923	Central Control and Process Operators in Manufacturing and Processing

Major Group 94-95
PROCESSING AND MANUFACTURING MACHINE OPERATORS AND ASSEMBLERS

941	Machine Operators and Related Workers in Metal and Mineral Products Processing
942	Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing
943	Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing
944	Machine Operators and Related Workers in Textile Processing
945	Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing
946	Machine Operators and Related Workers in Food, Beverage and Tobacco Processing
947	Printing Machine Operators and Related Occupations
948	Mechanical, Electrical and Electronics Assemblers
949	Other Assembly and Related Occupations
951	Machining, Metalworking, Woodworking and Related Machine Operators

Major Group 96
LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

961	Labourers in Processing, Manufacturing and Utilities

NOC Major, Minor and Unit Group Structure

MANAGEMENT OCCUPATIONS

Major Group 00
SENIOR MANAGEMENT OCCUPATIONS

001 Legislators and Senior Management

0011 Legislators
0012 Senior Government Managers and Officials
0013 Senior Managers – Financial, Communications and Other Business Services
0014 Senior Managers – Health, Education, Social and Community Services and Membership Organizations
0015 Senior Managers – Trade, Broadcasting and Other Services, n.e.c.*
0016 Senior Managers – Goods Production, Utilities, Transportation and Construction

Major Group 01-09
MIDDLE AND OTHER MANAGEMENT OCCUPATIONS

011 Administrative Services Managers

0111 Financial Managers
0112 Human Resources Managers
0113 Purchasing Managers
0114 Other Administrative Services Managers

012 Managers in Financial and Business Services

0121 Insurance, Real Estate and Financial Brokerage Managers
0122 Banking, Credit and Other Investment Managers
0123 Other Business Services Managers

013 Managers in Communication (Except Broadcasting)

0131 Telecommunication Carriers Managers
0132 Postal and Courier Services Managers

021 Managers in Engineering, Architecture, Science and Information Systems

0211 Engineering Managers
0212 Architecture and Science Managers
0213 Computer and Information Systems Managers

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* n.e.c = not elsewhere classified

031 Managers in Health, Education, Social and Community Services

0311 Managers in Health Care
0312 Administrators – Post-Secondary Education and Vocational Training
0313 School Principals and Administrators of Elementary and Secondary Education
0314 Managers in Social, Community and Correctional Services

041 Managers in Public Administration

0411 Government Managers – Health and Social Policy Development and Program Administration
0412 Government Managers – Economic Analysis, Policy Development and Program Administration
0413 Government Managers – Education Policy Development and Program Administration
0414 Other Managers in Public Administration

051 Managers in Art, Culture, Recreation and Sport

0511 Library, Archive, Museum and Art Gallery Managers
0512 Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts
0513 Recreation and Sports Program and Service Directors

061 Sales, Marketing and Advertising Managers

0611 Sales, Marketing and Advertising Managers

062 Managers in Retail Trade

0621 Retail Trade Managers

063 Managers in Food Service and Accommodation

0631 Restaurant and Food Service Managers
0632 Accommodation Service Managers

064 Managers in Protective Service

0641 Commissioned Police Officers
0642 Fire Chiefs and Senior Firefighting Officers
0643 Commissioned Officers, Armed Forces

065 Managers in Other Services

0651 Other Services Managers

071 Managers in Construction and Transportation

0711 Construction Managers
0712 Residential Home Builders and Renovators
0713 Transportation Managers

072 Facility Operation and Maintenance Managers

0721 Facility Operation and Maintenance Managers

081 Managers in Primary Production (Except Agriculture)

0811 Primary Production Managers (Except Agriculture)

091 Managers in Manufacturing and Utilities

0911 Manufacturing Managers
0912 Utilities Managers

BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS

Major Group 11
PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

111 Auditors, Accountants and Investment Professionals

1111 Financial Auditors and Accountants
1112 Financial and Investment Analysts
1113 Securities Agents, Investment Dealers and Brokers
1114 Other Financial Officers

112 Human Resources and Business Service Professionals

1121 Specialists in Human Resources
1122 Professional Occupations in Business Services to Management

Major Group 12
SKILLED ADMINISTRATIVE AND BUSINESS OCCUPATIONS

121 Clerical Supervisors

1211 Supervisors, General Office and Administrative Support Clerks
1212 Supervisors, Finance and Insurance Clerks
1213 Supervisors, Library, Correspondence and Related Information Clerks
1214 Supervisors, Mail and Message Distribution Occupations
1215 Supervisors, Recording, Distributing and Scheduling Occupations

122 Administrative and Regulatory Occupations

1221 Administrative Officers
1222 Executive Assistants
1223 Personnel and Recruitment Officers
1224 Property Administrators
1225 Purchasing Agents and Officers
1226 Conference and Event Planners
1227 Court Officers and Justices of the Peace
1228 Immigration, Employment Insurance and Revenue Officers

123 Finance and Insurance Administrative Occupations

1231 Bookkeepers
1232 Loan Officers
1233 Insurance Adjusters and Claims Examiners
1234 Insurance Underwriters
1235 Assessors, Valuators and Appraisers
1236 Customs, Ship and Other Brokers

124 Secretaries, Recorders and Transcriptionists

1241 Secretaries (Except Legal and Medical)
1242 Legal Secretaries
1243 Medical Secretaries
1244 Court Recorders and Medical Transcriptionists

Major Group 14
CLERICAL OCCUPATIONS

141 Clerical Occupations, General Office Skills

1411 General Office Clerks
1413 Records Management and Filing Clerks
1414 Receptionists and Switchboard Operators

142 Office Equipment Operators

1422 Data Entry Clerks
1423 Desktop Publishing Operators and Related Occupations
1424 Telephone Operators

143 Finance and Insurance Clerks

1431 Accounting and Related Clerks
1432 Payroll Clerks
1433 Customer Service Representatives – Financial Services
1434 Banking, Insurance and Other Financial Clerks
1435 Collectors

144 Administrative Support Clerks

1441 Administrative Clerks
1442 Personnel Clerks
1443 Court Clerks

145 Library, Correspondence and Related Information Clerks

1451 Library Clerks
1452 Correspondence, Publication and Related Clerks
1453 Customer Service, Information and Related Clerks
1454 Survey Interviewers and Statistical Clerks

146 Mail and Message Distribution Occupations

1461 Mail, Postal and Related Clerks
1462 Letter Carriers
1463 Couriers, Messengers and Door-to-Door Distributors

147 Recording, Scheduling and Distributing Occupations

1471 Shippers and Receivers
1472 Storekeepers and Parts Clerks
1473 Production Clerks
1474 Purchasing and Inventory Clerks
1475 Dispatchers and Radio Operators
1476 Transportation Route and Crew Schedulers

NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

Major Group 21
PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

211 Physical Science Professionals

2111 Physicists and Astronomers
2112 Chemists
2113 Geologists, Geochemists and Geophysicists
2114 Meteorologists
2115 Other Professional Occupations in Physical Sciences

212 Life Science Professionals

2121 Biologists and Related Scientists
2122 Forestry Professionals
2123 Agricultural Representatives, Consultants and Specialists

213 Civil, Mechanical, Electrical and Chemical Engineers

2131 Civil Engineers
2132 Mechanical Engineers
2133 Electrical and Electronics Engineers
2134 Chemical Engineers

214 Other Engineers

2141 Industrial and Manufacturing Engineers
2142 Metallurgical and Materials Engineers
2143 Mining Engineers
2144 Geological Engineers
2145 Petroleum Engineers
2146 Aerospace Engineers
2147 Computer Engineers (Except Software Engineers)
2148 Other Professional Engineers, n.e.c.

215 Architects, Urban Planners and Land Surveyors

2151 Architects
2152 Landscape Architects
2153 Urban and Land Use Planners
2154 Land Surveyors

216 Mathematicians, Statisticians and Actuaries

2161 Mathematicians, Statisticians and Actuaries

217 Computer and Information Systems Professionals

2171 Information Systems Analysts and Consultants
2172 Database Analysts and Data Administrators
2173 Software Engineers
2174 Computer Programmers and Interactive Media Developers
2175 Web Designers and Developers

Major Group 22
TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

221 Technical Occupations in Physical Sciences

2211 Chemical Technologists and Technicians
2212 Geological and Mineral Technologists and Technicians
2213 Meteorological Technicians

222 Technical Occupations in Life Sciences

2221 Biological Technologists and Technicians
2222 Agricultural and Fish Products Inspectors
2223 Forestry Technologists and Technicians
2224 Conservation and Fishery Officers
2225 Landscape and Horticultural Technicians and Specialists

223 Technical Occupations in Civil, Mechanical and Industrial Engineering

2231 Civil Engineering Technologists and Technicians
2232 Mechanical Engineering Technologists and Technicians
2233 Industrial Engineering and Manufacturing Technologists and Technicians
2234 Construction Estimators

224 Technical Occupations in Electronics and Electrical Engineering

2241 Electrical and Electronics Engineering Technologists and Technicians
2242 Electronic Service Technicians (Household and Business Equipment)
2243 Industrial Instrument Technicians and Mechanics
2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

225 Technical Occupations in Architecture, Drafting, Surveying and Mapping

2251 Architectural Technologists and Technicians
2252 Industrial Designers
2253 Drafting Technologists and Technicians
2254 Land Survey Technologists and Technicians
2255 Mapping and Related Technologists and Technicians

226 Other Technical Inspectors and Regulatory Officers

2261 Nondestructive Testers and Inspectors
2262 Engineering Inspectors and Regulatory Officers
2263 Inspectors in Public and Environmental Health and Occupational Health and Safety
2264 Construction Inspectors

227 Transportation Officers and Controllers

2271 Air Pilots, Flight Engineers and Flying Instructors
2272 Air Traffic Control and Related Occupations
2273 Deck Officers, Water Transport
2274 Engineer Officers, Water Transport
2275 Railway Traffic Controllers and Marine Traffic Regulators

228 Technical Occupations in Computer and Information Systems

2281 Computer and Network Operators and Web Technicians
2282 User Support Technicians
2283 Systems Testing Technicians

HEALTH OCCUPATIONS

Major Group 31

PROFESSIONAL OCCUPATIONS IN HEALTH

311 Physicians, Dentists and Veterinarians

3111 Specialist Physicians
3112 General Practitioners and Family Physicians
3113 Dentists
3114 Veterinarians

312 Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals

3121 Optometrists
3122 Chiropractors
3123 Other Professional Occupations in Health Diagnosing and Treating

313 Pharmacists, Dietitians and Nutritionists

3131 Pharmacists
3132 Dietitians and Nutritionists

314 Therapy and Assessment Professionals

3141 Audiologists and Speech-Language Pathologists
3142 Physiotherapists
3143 Occupational Therapists
3144 Other Professional Occupations in Therapy and Assessment

315 Nurse Supervisors and Registered Nurses

3151 Head Nurses and Supervisors
3152 Registered Nurses

Major Group 32
TECHNICAL AND SKILLED OCCUPATIONS IN HEALTH

321 Medical Technologists and Technicians (Except Dental Health)

3211 Medical Laboratory Technologists and Pathologists' Assistants
3212 Medical Laboratory Technicians
3213 Veterinary and Animal Health Technologists and Technicians
3214 Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists
3215 Medical Radiation Technologists
3216 Medical Sonographers
3217 Cardiology Technologists
3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.
3219 Other Medical Technologists and Technicians (Except Dental Health)

322 Technical Occupations in Dental Health Care

3221 Denturists
3222 Dental Hygienists and Dental Therapists
3223 Dental Technologists, Technicians and Laboratory Bench Workers

323 Other Technical Occupations in Health Care (Except Dental)

3231 Opticians
3232 Midwives and Practitioners of Natural Healing
3233 Licensed Practical Nurses
3234 Ambulance Attendants and Other Paramedical Occupations
3235 Other Technical Occupations in Therapy and Assessment

Major Group 34
ASSISTING OCCUPATIONS IN SUPPORT OF HEALTH SERVICES

341 Assisting Occupations in Support of Health Services

3411 Dental Assistants
3413 Nurse Aides, Orderlies and Patient Service Associates
3414 Other Assisting Occupations in Support of Health Services

OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION

Major Group 41
PROFESSIONAL OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICES AND RELIGION

411 Judges, Lawyers and Quebec Notaries

4111 Judges
4112 Lawyers and Quebec Notaries

412 University Professors and Assistants

4121 University Professors
4122 Post-Secondary Teaching and Research Assistants

413 College and Other Vocational Instructors

4131 College and Other Vocational Instructors

414 Secondary and Elementary School Teachers and Educational Counsellors

4141 Secondary School Teachers
4142 Elementary School and Kindergarten Teachers
4143 Educational Counsellors

415 Psychologists, Social Workers, Counsellors, Clergy and Probation Officers

4151 Psychologists
4152 Social Workers
4153 Family, Marriage and Other Related Counsellors
4154 Ministers of Religion
4155 Probation and Parole Officers and Related Occupations

416 Policy and Program Officers, Researchers and Consultants

4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers
4162 Economists and Economic Policy Researchers and Analysts
4163 Business Development Officers and Marketing Researchers and Consultants
4164 Social Policy Researchers, Consultants and Program Officers
4165 Health Policy Researchers, Consultants and Program Officers
4166 Education Policy Researchers, Consultants and Program Officers
4167 Recreation, Sports and Fitness Program Supervisors and Consultants
4168 Program Officers Unique to Government
4169 Other Professional Occupations in Social Science, n.e.c.

Major Group 42

PARAPROFESSIONAL OCCUPATIONS IN LAW, SOCIAL SERVICES, EDUCATION AND RELIGION

421 Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.

4211 Paralegal and Related Occupations
4212 Community and Social Service Workers
4213 Employment Counsellors
4214 Early Childhood Educators and Assistants
4215 Instructors and Teachers of Persons with Disabilities
4216 Other Instructors
4217 Other Religious Occupations

OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

Major Group 51

PROFESSIONAL OCCUPATIONS IN ART AND CULTURE

511 Librarians, Archivists, Conservators and Curators

5111 Librarians
5112 Conservators and Curators
5113 Archivists

512 Writing, Translating and Public Relations Professionals

5121 Authors and Writers
5122 Editors
5123 Journalists
5124 Professional Occupations in Public Relations and Communications
5125 Translators, Terminologists and Interpreters

513 Creative and Performing Artists

5131 Producers, Directors, Choreographers and Related Occupations
5132 Conductors, Composers and Arrangers
5133 Musicians and Singers
5134 Dancers
5135 Actors and Comedians
5136 Painters, Sculptors and Other Visual Artists

Major Group 52

TECHNICAL AND SKILLED OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

521 Technical Occupations in Libraries, Archives, Museums and Art Galleries

5211 Library and Archive Technicians and Assistants
5212 Technical Occupations Related to Museums and Art Galleries

522 Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts

5221 Photographers
5222 Film and Video Camera Operators
5223 Graphic Arts Technicians
5224 Broadcast Technicians
5225 Audio and Video Recording Technicians
5226 Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
5227 Support Occupations in Motion Pictures, Broadcasting and the Performing Arts

523 Announcers and Other Performers

5231 Announcers and Other Broadcasters
5232 Other Performers

524 Creative Designers and Craftspersons

5241 Graphic Designers and Illustrators
5242 Interior Designers
5243 Theatre, Fashion, Exhibit and Other Creative Designers
5244 Artisans and Craftspersons
5245 Patternmakers – Textile, Leather and Fur Products

525 Athletes, Coaches, Referees and Related Occupations

5251 Athletes
5252 Coaches
5253 Sports Officials and Referees
5254 Program Leaders and Instructors in Recreation and Sport

SALES AND SERVICE OCCUPATIONS

Major Group 62
SKILLED SALES AND SERVICE OCCUPATIONS

621 Sales and Service Supervisors

6211 Retail Trade Supervisors
6212 Food Service Supervisors
6213 Executive Housekeepers
6214 Dry Cleaning and Laundry Supervisors
6215 Cleaning Supervisors
6216 Other Service Supervisors

622 Technical Sales Specialists, Wholesale Trade

6221 Technical Sales Specialists – Wholesale Trade

623 Insurance and Real Estate Sales Occupations and Buyers

6231 Insurance Agents and Brokers
6232 Real Estate Agents and Salespersons
6233 Retail and Wholesale Buyers
6234 Grain Elevator Operators

624 Chefs and Cooks

6241 Chefs
6242 Cooks

625 Butchers and Bakers

6251 Butchers and Meat Cutters – Retail and Wholesale
6252 Bakers

626 Police Officers and Firefighters

6261 Police Officers (Except Commissioned)
6262 Firefighters

627 Technical Occupations in Personal Service

6271 Hairstylists and Barbers
6272 Funeral Directors and Embalmers

Major Group 64
INTERMEDIATE SALES AND SERVICE OCCUPATIONS

641 Sales Representatives, Wholesale Trade

6411 Sales Representatives – Wholesale Trade (Non-Technical)

642 Retail Salespersons and Sales Clerks

6421 Retail Salespersons and Sales Clerks

643 Occupations in Travel and Accommodation

6431 Travel Counsellors
6432 Pursers and Flight Attendants
6433 Airline Sales and Service Agents
6434 Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)
6435 Hotel Front Desk Clerks

644 Tour and Recreational Guides and Casino Occupations

6441 Tour and Travel Guides
6442 Outdoor Sport and Recreational Guides
6443 Casino Occupations

645 Occupations in Food and Beverage Service

6451 Maîtres d'hôtel and Hosts/Hostesses
6452 Bartenders
6453 Food and Beverage Servers

646 Other Occupations in Protective Service

6461 Sheriffs and Bailiffs
6462 Correctional Service Officers
6463 By-law Enforcement and Other Regulatory Officers, n.e.c.
6464 Occupations Unique to the Armed Forces
6465 Other Protective Service Occupations

647 Childcare and Home Support Workers

6471 Visiting Homemakers, Housekeepers and Related Occupations
6472 Elementary and Secondary School Teacher Assistants
6474 Babysitters, Nannies and Parents' Helpers

648 Other Occupations in Personal Service

6481 Image, Social and Other Personal Consultants
6482 Estheticians, Electrologists and Related Occupations
6483 Pet Groomers and Animal Care Workers
6484 Other Personal Service Occupations

Major Group 66
ELEMENTAL SALES AND SERVICE OCCUPATIONS

661 Cashiers

6611 Cashiers

662 Other Sales and Related Occupations

6621 Service Station Attendants
6622 Grocery Clerks and Store Shelf Stockers
6623 Other Elemental Sales Occupations

664 Food Counter Attendants, Kitchen Helpers and Related Occupations

6641 Food Counter Attendants, Kitchen Helpers and Related Occupations

665 Security Guards and Related Occupations

6651 Security Guards and Related Occupations

666 Cleaners

6661 Light Duty Cleaners
6662 Specialized Cleaners
6663 Janitors, Caretakers and Building Superintendents

667 Other Occupations in Travel, Accommodation, Amusement and Recreation

6671 Operators and Attendants in Amusement, Recreation and Sport
6672 Other Attendants in Accommodation and Travel

668 Other Elemental Service Occupations

6681 Dry Cleaning and Laundry Occupations
6682 Ironing, Pressing and Finishing Occupations
6683 Other Elemental Service Occupations

TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS

Major Group 72-73
TRADES AND SKILLED TRANSPORT AND EQUIPMENT OPERATORS

721 Contractors and Supervisors, Trades and Related Workers

7211 Supervisors, Machinists and Related Occupations
7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations
7213 Contractors and Supervisors, Pipefitting Trades
7214 Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades
7215 Contractors and Supervisors, Carpentry Trades
7216 Contractors and Supervisors, Mechanic Trades
7217 Contractors and Supervisors, Heavy Construction Equipment Crews
7218 Supervisors, Printing and Related Occupations
7219 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers

722 Supervisors, Railway and Motor Transportation Occupations

7221 Supervisors, Railway Transport Operations
7222 Supervisors, Motor Transport and Other Ground Transit Operators

723 Machinists and Related Occupations

7231 Machinists and Machining and Tooling Inspectors
7232 Tool and Die Makers

724 Electrical Trades and Telecommunication Occupations

7241 Electricians (Except Industrial and Power System)
7242 Industrial Electricians
7243 Power System Electricians
7244 Electrical Power Line and Cable Workers
7245 Telecommunications Line and Cable Workers
7246 Telecommunications Installation and Repair Workers
7247 Cable Television Service and Maintenance Technicians

725 Plumbers, Pipefitters and Gas Fitters

7251 Plumbers
7252 Steamfitters, Pipefitters and Sprinkler System Installers
7253 Gas Fitters

726 Metal Forming, Shaping and Erecting Trades

7261 Sheet Metal Workers
7262 Boilermakers
7263 Structural Metal and Platework Fabricators and Fitters
7264 Ironworkers
7265 Welders and Related Machine Operators
7266 Blacksmiths and Die Setters

727 Carpenters and Cabinetmakers

7271 Carpenters
7272 Cabinetmakers

728 Masonry and Plastering Trades

7281 Bricklayers
7282 Concrete Finishers
7283 Tilesetters
7284 Plasterers, Drywall Installers and Finishers and Lathers

729 Other Construction Trades

7291 Roofers and Shinglers
7292 Glaziers
7293 Insulators
7294 Painters and Decorators
7295 Floor Covering Installers

731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)

7311 Construction Millwrights and Industrial Mechanics (Except Textile)
7312 Heavy-Duty Equipment Mechanics
7313 Refrigeration and Air Conditioning Mechanics
7314 Railway Carmen/women
7315 Aircraft Mechanics and Aircraft Inspectors
7316 Machine Fitters
7317 Textile Machinery Mechanics and Repairers
7318 Elevator Constructors and Mechanics

732 Automotive Service Technicians

7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers
7322 Motor Vehicle Body Repairers

733 Other Mechanics

7331 Oil and Solid Fuel Heating Mechanics
7332 Electric Appliance Servicers and Repairers
7333 Electrical Mechanics
7334 Motorcycle and Other Related Mechanics
7335 Other Small Engine and Equipment Mechanics

734 Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations

7341 Upholsterers
7342 Tailors, Dressmakers, Furriers and Milliners
7343 Shoe Repairers and Shoemakers
7344 Jewellers, Watch Repairers and Related Occupations

735 Stationary Engineers and Power Station and System Operators

7351 Stationary Engineers and Auxiliary Equipment Operators
7352 Power Systems and Power Station Operators

736 Train Crew Operating Occupations

7361 Railway and Yard Locomotive Engineers
7362 Railway Conductors and Brakemen/women

737 Crane Operators, Drillers and Blasters

7371 Crane Operators
7372 Drillers and Blasters – Surface Mining, Quarrying and Construction
7373 Water Well Drillers

738 Printing Press Operators, Commercial Divers and Other Trades and Related Occupations, n.e.c.

7381 Printing Press Operators
7382 Commercial Divers
7383 Other Trades and Related Occupations

Major Group 74
INTERMEDIATE OCCUPATIONS IN TRANSPORT, EQUIPMENT OPERATION, INSTALLATION AND MAINTENANCE

741 Motor Vehicle and Transit Drivers

7411 Truck Drivers
7412 Bus Drivers and Subway and Other Transit Operators
7413 Taxi and Limousine Drivers and Chauffeurs
7414 Delivery and Courier Service Drivers

742 Heavy Equipment Operators

7421 Heavy Equipment Operators (Except Crane)
7422 Public Works Maintenance Equipment Operators

743 Other Transport Equipment Operators and Related Workers

7431 Railway Yard Workers
7432 Railway Track Maintenance Workers
7433 Deck Crew, Water Transport
7434 Engine Room Crew, Water Transport
7435 Lock and Cable Ferry Operators and Related Occupations
7436 Boat Operators
7437 Air Transport Ramp Attendants

744 Other Installers, Repairers and Servicers

7441 Residential and Commercial Installers and Servicers
7442 Waterworks and Gas Maintenance Workers
7443 Automotive Mechanical Installers and Servicers
7444 Pest Controllers and Fumigators
7445 Other Repairers and Servicers

745 Longshore Workers and Material Handlers

7451 Longshore Workers
7452 Material Handlers

Major Group 76
TRADES HELPERS, CONSTRUCTION LABOURERS AND RELATED OCCUPATIONS

761 Trades Helpers and Labourers

7611 Construction Trades Helpers and Labourers
7612 Other Trades Helpers and Labourers

762 Public Works and Other Labourers, n.e.c.

7621 Public Works and Maintenance Labourers
7622 Railway and Motor Transport Labourers

OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

Major Group 82

SKILLED OCCUPATIONS IN PRIMARY INDUSTRY

821 Supervisors, Logging and Forestry

8211 Supervisors, Logging and Forestry

822 Supervisors, Mining, Oil and Gas

8221 Supervisors, Mining and Quarrying
8222 Supervisors, Oil and Gas Drilling and Service

823 Underground Miners, Oil and Gas Drillers and Related Workers

8231 Underground Production and Development Miners
8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

824 Logging Machinery Operators

8241 Logging Machinery Operators

825 Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture

8251 Farmers and Farm Managers
8252 Agricultural and Related Service Contractors and Managers
8253 Farm Supervisors and Specialized Livestock Workers
8254 Nursery and Greenhouse Operators and Managers
8255 Landscaping and Grounds Maintenance Contractors and Managers
8256 Supervisors, Landscape and Horticulture
8257 Aquaculture Operators and Managers

826 Fishing Vessel Masters and Skippers and Fishermen/women

8261 Fishing Masters and Officers
8262 Fishing Vessel Skippers and Fishermen/women

Major Group 84

INTERMEDIATE OCCUPATIONS IN PRIMARY INDUSTRY

841 Mine Service Workers and Operators in Oil and Gas Drilling

8411 Underground Mine Service and Support Workers
8412 Oil and Gas Well Drilling Workers and Services Operators

842 Logging and Forestry Workers

8421 Chainsaw and Skidder Operators
8422 Silviculture and Forestry Workers

843 Agriculture and Horticulture Workers

8431 General Farm Workers
8432 Nursery and Greenhouse Workers

844 Other Fishing and Trapping Occupations

8441 Fishing Vessel Deckhands
8442 Trappers and Hunters

Major Group 86
LABOURERS IN PRIMARY INDUSTRY

861 Primary Production Labourers

8611 Harvesting Labourers
8612 Landscaping and Grounds Maintenance Labourers
8613 Aquaculture and Marine Harvest Labourers
8614 Mine Labourers
8615 Oil and Gas Drilling, Servicing and Related Labourers
8616 Logging and Forestry Labourers

OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

Major Group 92
PROCESSING, MANUFACTURING AND UTILITIES SUPERVISORS AND SKILLED OPERATORS

921 Supervisors, Processing Occupations

9211 Supervisors, Mineral and Metal Processing
9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities
9213 Supervisors, Food, Beverage and Tobacco Processing
9214 Supervisors, Plastic and Rubber Products Manufacturing
9215 Supervisors, Forest Products Processing
9216 Supervisors, Textile Processing

922 Supervisors, Assembly and Fabrication

9221 Supervisors, Motor Vehicle Assembling
9222 Supervisors, Electronics Manufacturing
9223 Supervisors, Electrical Products Manufacturing
9224 Supervisors, Furniture and Fixtures Manufacturing
9225 Supervisors, Fabric, Fur and Leather Products Manufacturing
9226 Supervisors, Other Mechanical and Metal Products Manufacturing
9227 Supervisors, Other Products Manufacturing and Assembly

923 Central Control and Process Operators in Manufacturing and Processing

9231 Central Control and Process Operators, Mineral and Metal Processing
9232 Petroleum, Gas and Chemical Process Operators
9233 Pulping Control Operators
9234 Papermaking and Coating Control Operators

Major Group 94-95
PROCESSING AND MANUFACTURING MACHINE OPERATORS AND ASSEMBLERS

941 Machine Operators and Related Workers in Metal and Mineral Products Processing

9411 Machine Operators, Mineral and Metal Processing
9412 Foundry Workers
9413 Glass Forming and Finishing Machine Operators and Glass Cutters
9414 Concrete, Clay and Stone Forming Operators
9415 Inspectors and Testers, Mineral and Metal Processing

942 Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing

9421 Chemical Plant Machine Operators
9422 Plastics Processing Machine Operators
9423 Rubber Processing Machine Operators and Related Workers
9424 Water and Waste Plant Operators

943 Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing

9431 Sawmill Machine Operators
9432 Pulp Mill Machine Operators
9433 Papermaking and Finishing Machine Operators
9434 Other Wood Processing Machine Operators
9435 Paper Converting Machine Operators
9436 Lumber Graders and Other Wood Processing Inspectors and Graders

944 Machine Operators and Related Workers in Textile Processing

9441 Textile Fibre and Yarn Preparation Machine Operators
9442 Weavers, Knitters and Other Fabric-Making Occupations
9443 Textile Dyeing and Finishing Machine Operators
9444 Textile Inspectors, Graders and Samplers

945 Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing

9451 Sewing Machine Operators
9452 Fabric, Fur and Leather Cutters
9453 Hide and Pelt Processing Workers
9454 Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

946 Machine Operators and Related Workers in Food, Beverage and Tobacco Processing

9461 Process Control and Machine Operators, Food and Beverage Processing
9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
9463 Fish Plant Workers
9464 Tobacco Processing Machine Operators
9465 Testers and Graders, Food and Beverage Processing

947 Printing Machine Operators and Related Occupations

9471 Printing Machine Operators
9472 Camera, Platemaking and Other Pre-Press Occupations
9473 Binding and Finishing Machine Operators
9474 Photographic and Film Processors

948 Mechanical, Electrical and Electronics Assemblers

9481 Aircraft Assemblers and Aircraft Assembly Inspectors
9482 Motor Vehicle Assemblers, Inspectors and Testers
9483 Electronics Assemblers, Fabricators, Inspectors and Testers
9484 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
9486 Mechanical Assemblers and Inspectors
9487 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

949 Other Assembly and Related Occupations

9491 Boat Assemblers and Inspectors
9492 Furniture and Fixture Assemblers and Inspectors
9493 Other Wood Products Assemblers and Inspectors
9494 Furniture Finishers and Refinishers
9495 Plastic Products Assemblers, Finishers and Inspectors
9496 Painters and Coaters – Industrial
9497 Plating, Metal Spraying and Related Operators
9498 Other Assemblers and Inspectors

951 Machining, Metalworking, Woodworking and Related Machine Operators

9511 Machining Tool Operators
9512 Forging Machine Operators
9513 Woodworking Machine Operators
9514 Metalworking Machine Operators
9516 Other Metal Products Machine Operators
9517 Other Products Machine Operators

Major Group 96
LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

961 Labourers in Processing, Manufacturing and Utilities

9611 Labourers in Mineral and Metal Processing
9612 Labourers in Metal Fabrication
9613 Labourers in Chemical Products Processing and Utilities
9614 Labourers in Wood, Pulp and Paper Processing
9615 Labourers in Rubber and Plastic Products Manufacturing
9616 Labourers in Textile Processing
9617 Labourers in Food, Beverage and Tobacco Processing
9618 Labourers in Fish Processing
9619 Other Labourers in Processing, Manufacturing and Utilities

MANAGEMENT OCCUPATIONS

Major Group 00
SENIOR MANAGEMENT OCCUPATIONS

001 Legislators and Senior Management

0011 Legislators
0012 Senior Government Managers and Officials
0013 Senior Managers – Financial, Communications and Other Business Services
0014 Senior Managers – Health, Education, Social and Community Services and Membership Organizations
0015 Senior Managers – Trade, Broadcasting and Other Services, n.e.c.
0016 Senior Managers – Goods Production, Utilities, Transportation and Construction

Major Group 01-09
MIDDLE AND OTHER MANAGEMENT OCCUPATIONS

011 Administrative Services Managers

0111 Financial Managers
0112 Human Resources Managers
0113 Purchasing Managers
0114 Other Administrative Services Managers

012 Managers in Financial and Business Services

0121 Insurance, Real Estate and Financial Brokerage Managers
0122 Banking, Credit and Other Investment Managers
0123 Other Business Services Managers

013 Managers in Communication (Except Broadcasting)

0131 Telecommunication Carriers Managers
0132 Postal and Courier Services Managers

021 Managers in Engineering, Architecture, Science and Information Systems

0211 Engineering Managers
0212 Architecture and Science Managers
0213 Computer and Information Systems Managers

031 Managers in Health, Education, Social and Community Services

0311 Managers in Health Care
0312 Administrators – Post-Secondary Education and Vocational Training
0313 School Principals and Administrators of Elementary and Secondary Education
0314 Managers in Social, Community and Correctional Services

041 Managers in Public Administration

0411 Government Managers – Health and Social Policy Development and Program Administration
0412 Government Managers – Economic Analysis, Policy Development and Program Administration
0413 Government Managers – Education Policy Development and Program Administration
0414 Other Managers in Public Administration

051 Managers in Art, Culture, Recreation and Sport

0511 Library, Archive, Museum and Art Gallery Managers
0512 Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts
0513 Recreation and Sports Program and Service Directors

061 Sales, Marketing and Advertising Managers

0611 Sales, Marketing and Advertising Managers

062 Managers in Retail Trade

0621 Retail Trade Managers

063 Managers in Food Service and Accommodation

0631 Restaurant and Food Service Managers
0632 Accommodation Service Managers

064 Managers in Protective Service

0641 Commissioned Police Officers
0642 Fire Chiefs and Senior Firefighting Officers
0643 Commissioned Officers, Armed Forces

065 Managers in Other Services

0651 Other Services Managers

071 Managers in Construction and Transportation

0711 Construction Managers
0712 Residential Home Builders and Renovators
0713 Transportation Managers

072 Facility Operation and Maintenance Managers

0721 Facility Operation and Maintenance Managers

081 Managers in Primary Production (Except Agriculture)

0811 Primary Production Managers (Except Agriculture)

091 Managers in Manufacturing and Utilities

0911 Manufacturing Managers
0912 Utilities Managers

0011 Legislators

Legislators participate in the activities of a federal, provincial, territorial or local government legislative body or executive council, band council or school board as elected or appointed members.

Examples of titles classified in this unit group

cabinet minister
city councillor
First Nations band chief
governor general
lieutenant-governor
mayor
member of Parliament (MP)
member of the National Assembly (MNA)
member of the Provincial Parliament (MPP)
premier
prime minister
school board trustee
senator

Main duties

Legislators perform some or all of the following duties:

- Enact, amend or repeal laws and regulations
- Participate in developing or amending government policies, programs or procedures
- Represent their government at local, national and international meetings and conferences
- Respond to matters of concern to constituents or the general public
- May serve as minister responsible for a government department or agency and direct senior government managers and officials in the implementation of government policy and the management of that department or agency.

Employment requirements

- Election to a legislative body is required or appointment to positions such as lieutenant-governor or governor general.

Classified elsewhere

- Commissioners – government services (in 0012 *Senior Government Managers and Officials*)
- Elected or appointed officials of health care institutions, educational institutions, unions and voluntary organizations (in 0014 *Senior Managers – Health, Education, Social and Community Services and Membership Organizations*)

0012 Senior Government Managers and Officials

Senior government managers and officials plan, organize, direct, control and evaluate, through middle managers, the major activities of municipal or regional governments or of provincial, territorial or federal departments, boards, agencies or commissions. They establish the direction to be taken by these organizations in accordance with policies made by elected representatives or legislative bodies.

Examples of titles classified in this unit group

assistant deputy minister
chairperson, Human Rights Commission
chief administrative officer – regional municipality
chief statistician – government services
city administrator
deputy minister
director general – government services
executive director – government services
high commissioner

Main duties

Senior government managers and officials perform some or all of the following duties:

- Establish objectives for the organization in accordance with government policy, formulate or approve and evaluate programs and procedures alone or in conjunction with senior government committees
- Advise elected representatives on policy questions and refer any major policy matters to these representatives for final decision
- Recommend, review, evaluate and approve documents, briefs and reports submitted by middle managers and senior staff members
- Ensure appropriate systems and procedures are developed and implemented to provide budgetary control
- Co-ordinate department activities with other senior government managers and officials
- Make presentations to legislative and other government committees regarding policies, programs or budgets.

Employment requirements

- A university degree or college diploma is usually required.
- A graduate degree in a related field may be required.
- Several years of managerial experience in the public or private sector are required.

Classified elsewhere

- *Legislators* (0011)
- Middle managers in government (in 041 *Managers in Public Administration*)

0013 Senior Managers – Financial, Communications and Other Business Services

Senior managers in this unit group are usually appointed by a board of directors, to which they report. Working either alone or in conjunction with the board of directors, they develop and establish objectives for the company and develop or approve policies and programs. They plan, organize, direct, control and evaluate, through middle managers, the operations of their organization in relation to established objectives.

Examples of titles classified in this unit group

bank president
chief executive officer (CEO) – telephone company
chief financial officer (CFO) – advertising agency
chief operating officer – engineering firm
executive director, credit union
executive vice-president, real estate agency
general manager, real estate management company
president, advertising agency
president, computing service company
president and chief executive officer
regional vice-president, trust company
vice-president, human resources – bank
vice-president, marketing – clerical staff services
vice-president, operations – satellite communication services

Main duties

Senior managers in this unit group perform some or all of the following duties:

- Determine the company's mission and strategic direction as conveyed through policies and concrete objectives which they meet through the effective management of human, financial and physical resources
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate physical, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall human resources planning
- Select middle managers, directors or other executive staff; delegate the necessary authority to them and create optimum working conditions
- Represent the organization or delegate representatives to act on behalf of the organization in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular service area.

Employment requirements

- A university degree in business administration, commerce, computer science or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in financial, communications or other business services are usually required.
- Specialization in a particular functional area or service may occur either through specific university training in that area and through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- The boundaries of this unit group are defined by the North American Industry Classification System (NAICS). Included are senior managers in the following industries: communications, finance and insurance, real estate and business services.

Classified elsewhere

Related middle managers are classified in the following minor groups:

- *Managers in Communication (Except Broadcasting)* (013)
- *Managers in Engineering, Architecture, Science and Information Systems* (021)
- *Managers in Financial and Business Services* (012)

0014 Senior Managers – Health, Education, Social and Community Services and Membership Organizations

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, membership and other organizations or institutions that deliver health, education, social or community services. They formulate policies which establish the direction to be taken by these organizations, either alone or in conjunction with a board of directors.

Examples of titles classified in this unit group

chairperson, arts and culture association
chairperson, scientific association
chief financial officer (CFO), educational institution
corporate controller, social services institution
executive director, health services institutions
executive director, professional association
executive director, voluntary organization
general manager, membership organization
president, business association
president, labour organization
president, music guild

Main duties

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the organization or institution and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement an organization's policies and programs; establish financial and administrative controls; formulate and approve promotion campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the organization or institution or delegate representatives to act on behalf of the organization in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing, human resources or in a particular service area.

Employment requirements

- A university degree or college diploma in business administration, hospital administration, finance or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in a related institution or organization are usually required.
- Specialization in a particular functional area or service may occur either through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- The boundaries of this unit group are defined by the North American Industry Classification System (NAICS). Included are senior managers in the following industries: educational services, health care and social services and membership organizations.

Classified elsewhere

Related middle managers are classified in the following unit groups:

- *Administrators – Post-Secondary Education and Vocational Training* (0312)
- *Government Managers – Education Policy Development and Program Administration* (0413)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Managers in Health Care* (0311)

0014 Senior Managers – Health, Education, Social and Community Services and Membership Organizations

- *Managers in Social, Community and Correctional Services* (0314)
- *Other Managers in Public Administration* (0414)
- *School Principals and Administrators of Elementary and Secondary Education* (0313)

0015 Senior Managers – Trade, Broadcasting and Other Services, n.e.c.

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, trade, broadcasting and other service companies not elsewhere classified. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with a board of directors.

Examples of titles classified in this unit group

chief executive officer (CEO), travel agency
chief financial officer (CFO), professional sports club
corporate controller, restaurant chain
executive director, automobile association
general manager, cleaning service
president, department store
regional vice-president, hotel chain
vice-president, engineering – television broadcasting services
vice-president, finance – food wholesaling
vice-president, marketing – grocery store chain
vice-president, operations – radio broadcasting services

Main duties

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement company policies and programs; establish financial and administrative controls; formulate and approve promotion campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the company or delegate representatives to act on behalf of the company in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in the sale of a particular product or provision of a particular service.

Employment requirements

- A university degree or college diploma in business administration, finance or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in trade, broadcasting or other service are usually required.
- Specialization in a particular functional area or service is possible either through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- The boundaries of this unit group are defined by the North American Industry Classification System (NAICS). Included are senior managers in the following industries: broadcasting and telecommunications, wholesale trade, retail trade, accommodation and food service, and other services not elsewhere classified.

Classified elsewhere

Related middle managers are classified in the following unit and minor groups:

- *Managers in Art, Culture, Recreation and Sport* (051)
- *Managers in Food Service and Accommodation* (063)
- *Managers in Retail Trade* (062)
- *Other Services Managers* (0651)

0016 Senior Managers – Goods Production, Utilities, Transportation and Construction

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, goods production, utility, transportation and construction companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with other members of a board of directors.

Examples of titles classified in this unit group

chief executive officer (CEO) – manufacturing company
chief financial officer (CFO) – urban transit system
corporate controller, logging company
executive vice-president – railway
general manager, trucking company
president, residential construction company
publisher
regional vice-president, petroleum production company
vice-president, finance – mining company
vice-president, marketing – airline
vice-president, operations – electric power company
vice-president, sales – pulp and paper manufacturing

Main duties

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement company policies and programs; establish financial and administrative controls; formulate and approve promotion campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the company or delegate representatives to act on behalf of the company in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular product area.

Employment requirements

- A university degree or college diploma in engineering, business administration, commerce or other discipline related to the company's product is usually required.
- Several years of experience as a middle manager in goods production, utilities, transportation or construction are usually required.
- Specialization in a particular functional area or product may occur either through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- The boundaries of this unit group are defined by the North American Industry Classification System (NAICS). Included are senior managers in the following industries: fishing, forestry and logging; mining, oil and gas extraction; manufacturing; printing and publishing; construction; transportation and warehousing; and utilities.

Classified elsewhere

Related middle managers are classified in the following unit and minor groups:

- *Managers in Construction and Transportation* (071)
- *Managers in Manufacturing and Utilities* (091)
- *Primary Production Managers (Except Agriculture)* (0811)

0111 Financial Managers

Financial managers plan, organize, direct, control and evaluate the operation of financial and accounting departments. They develop and implement the financial policies and systems of establishments. Financial managers establish performance standards and prepare various financial reports for senior management. They are employed in financial and accounting departments in companies throughout the private sector and in government.

Examples of titles classified in this unit group

controller
director – financial services
director of accounting
finance director
manager, financial control
manager, financial planning and analysis
manager, internal audit services
treasurer

Main duties

Financial managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operation of an accounting, audit or other financial department
- Develop and implement the financial policies, systems and procedures of an establishment
- Prepare or co-ordinate the preparation of financial statements, summaries, and other cost-benefit analyses and financial management reports
- Co-ordinate the financial planning and budget process, and analyze and correct estimates
- Supervise the development and implementation of financial simulation models
- Evaluate financial reporting systems, accounting procedures and investment activities and make recommendations for changes to procedures, operating systems, budgets and other financial control functions to senior managers and other department or regional managers
- Recruit, organize, train and manage staff
- Act as liaison between the organization and its shareholders, the investing public and external financial analysts
- Establish profitability standards for investment activities and handle mergers and/or acquisitions
- Notify and report to senior management concerning any trends that are critical to the organization's financial performance.

Employment requirements

- A university degree in business administration, economics, commerce or a related field
  and
  Accounting and audit managers may require a recognized accounting designation (CA, CMA or CGA).
- A master's degree in business administration (concentration in finance), or another master's-level management program may be required.
- Several years of experience in accounting, auditing, budgeting, financial planning and analysis or other financial activities are required.

Additional information

- Progression to senior management positions, such as vice-president of finance, is possible with experience.

Classified elsewhere

- *Banking, Credit and Other Investment Managers* (0122)
- Managers of accounting and auditing firms (in 0123 *Other Business Services Managers*)
- *Senior Managers – Financial, Communications and Other Business Services* (0013)

0112 Human Resources Managers

Human resources managers plan, organize, direct, control and evaluate the operations of human resources and personnel departments, and develop and implement policies, programs and procedures regarding human resource planning, recruitment, collective bargaining, training and development, occupation classification and pay and benefit administration. They represent management and participate actively on various joint committees to maintain ongoing relations between management and employees. Human resources managers are employed throughout the private and public sectors.

Examples of titles classified in this unit group

administrator, human resources
manager, employer-employee relations
manager, employment equity – human resources
manager, human resources
manager, industrial relations
manager, occupational health and safety
manager, pay and benefits
manager, personnel
manager, personnel services
manager, personnel training and development
manager, recruiting
manager, staff relations

Main duties

Human resources managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of human resources or personnel departments
- Plan human resource requirements in conjunction with other departmental managers
- Co-ordinate internal and external training and recruitment activities
- Develop and implement labour relations policies and procedures and negotiate collective agreements
- Administer employee development, language training and health and safety programs
- Advise and assist other departmental managers on interpretation and administration of personnel policies and programs
- Oversee the classification and rating of occupations
- Organize and conduct employee information meetings on employment policy, benefits and compensation and participate actively on various joint committees
- Direct the organization's quality management program
- Ensure compliance with legislation such as the Pay Equity Act.

Employment requirements

- A bachelor's degree in a field related to personnel management, such as business administration, industrial relations, commerce or psychology

  or

  Completion of a professional development program on personnel administration is required.
- Several years of experience as a personnel officer or human resource specialist are required.

Additional information

- Progression to senior management positions is possible with experience.
- Other joint committees led by human resources managers may focus on issues such as alcohol or drug addiction.

Classified elsewhere

- *Specialists in Human Resources* (1121)

0113 Purchasing Managers

Purchasing managers plan, organize, direct, control and evaluate the activities of a purchasing department and develop and implement the purchasing policies of a business or institution. They are employed throughout the public and private sectors.

Examples of titles classified in this unit group

contract manager
director, procurement operations
director, purchasing
food purchasing manager
manager, purchasing contracts
material manager
purchasing manager

Main duties

Purchasing managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the purchasing activities of an establishment
- Develop purchasing policies and procedures and control purchasing department budget
- Identify vendors of materials, equipment or supplies
- Evaluate cost and quality of goods or services
- Negotiate or oversee the negotiation of purchase contracts
- Participate in the development of specifications for equipment, products or substitute materials
- Review and process claims against suppliers
- Interview, hire and oversee training of staff.

Employment requirements

- A bachelor's degree or college diploma in business administration, commerce or economics is usually required.
- Purchasing managers responsible for units purchasing specialized materials or business services may require a related degree or diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasing managers responsible for purchasing industrial products.
- The designation Certified Professional Purchaser (C.P.P.) or registration in the educational program of the Purchasing Management Association of Canada may be required.
- Several years of experience as a purchasing agent or officer are required.

Classified elsewhere

- *Purchasing Agents and Officers* (1225)
- *Retail and Wholesale Buyers* (6233)
- Warehouse managers (in 0721 *Facility Operation and Maintenance Managers*)

0114 Other Administrative Services Managers

This unit group includes managers who plan, organize, direct, control and evaluate departments responsible for corporate governance and regulatory compliance, records management, security services, admissions and other administrative services not elsewhere classified. Also included in this unit group are managers responsible for departments involved in two or more of the following activities: finance, human resources, purchasing computer systems or administrative services. Managers in this unit group are employed throughout the public and private sector.

Examples of titles classified in this unit group

business manager, non-profit organization
chief, administrative services
inventory control manager
manager, administrative services
manager, security
manager, support services
records administrator
regional administrative manager

Main duties

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a department providing a single administrative service or several administrative services
- Direct and advise staff engaged in providing records management, security, finance, purchasing, human resources or other administrative services
- Direct and control corporate governance and regulatory compliance procedures within establishment
- Plan, administer and control budgets for contracts, equipment and supplies
- Prepare reports and briefs for management committees evaluating administrative services
- Interview, hire and oversee training for staff.

Employment requirements

- A bachelor's degree or college diploma in business administration or a related administrative services field is usually required.
- Several years of experience at a professional level in business administration, finance or administrative services are usually required.
- An Associate of the Institute of the Chartered Secretaries and Administrators (ACIS), Fellow of the Institute of Chartered Secretaries and Administrators (FCIS) or a Professional Administrator (P Adm) designation may be required for some occupations in this group.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Facility Operation and Maintenance Managers* (0721)
- *Financial Managers* (0111)
- *Human Resources Managers* (0112)
- *Purchasing Managers* (0113)

0121 Insurance, Real Estate and Financial Brokerage Managers

Insurance, real estate and financial brokerage managers plan, organize, direct, control and evaluate the activities of departments or establishments that provide insurance, mortgage, real estate and investment services. They are generally responsible for business development and must ensure that their group reaches performance levels related to established objectives. They are employed by insurance companies, real estate firms, stockbrokers, investment dealers, mortgage brokers and security and commodity exchanges.

Examples of titles classified in this unit group

bond sales manager
brokerage manager – investments
commodities trading manager
financial brokerage manager
insurance claims service manager
insurance manager
investment manager
mortgage broker manager
real estate service manager
securities sales director
trading floor manager

Main duties

Insurance, real estate and financial brokerage managers perform some or all of the following duties:

- Insurance managers plan, organize, direct, control and evaluate the operations of an establishment or department that provides automobile, fire, life, property or other types of insurance services.
- Real estate service managers plan, organize, direct, control and evaluate the operations of an establishment or department that buys, sells and leases residential and commercial property for clients.
- Mortgage broker managers plan, organize, direct, control and evaluate the operations of an establishment or department that finds lenders or lending institutions on behalf of clients seeking a mortgage.
- Securities managers plan, organize, direct, control and evaluate the operation of an establishment or department that buys and sells stocks, bonds and other forms of investments on behalf of individual or institutional clients; manage the investments of their own clients.

Employment requirements

- A university degree or college diploma in business administration, economics or other related field is usually required.
- Several years of experience within the appropriate industry are usually required.
- Licensure appropriate to the service sold, such as real estate, mortgage, securities or insurance, may be required.
- In the insurance industry, a recognized professional designation is usually required.

Additional information

- There is no mobility between the different types of managers in this unit group.
- Progression to senior management positions is possible with experience.

Classified elsewhere

- *Banking, Credit and Other Investment Managers* (0122)
- *Financial Managers* (0111)
- *Other Business Services Managers* (0123)
- *Sales, Marketing and Advertising Managers* (0611)

0122 Banking, Credit and Other Investment Managers

Banking, credit and other investment managers plan, organize, direct, control and evaluate the activities of financial establishments or operational departments within such establishments, or credit departments in industrial and commercial establishments. They oversee business development and manage overall performance in accordance with established strategic directions and policies. Banking managers are employed by banks, trust companies and credit unions. Credit managers are employed by credit departments in department stores, utility companies, car dealerships, insurance companies or other industrial or commercial organizations. Other investment managers are employed by credit card companies, consumer loan companies, mutual fund investment firms, mortgage investment companies or other financial establishments concerned with extending loans and financing and investments.

Examples of titles classified in this unit group

bank manager
collection centre manager
commercial banking manager
corporate banking centre manager
credit manager
credit union manager
manager, banking operations
manager, credit card centre
manager, personal services – banking, credit and investment
mortgage and consumer credit manager
operations manager, credit card company
regional collection manager
trust company manager

Main duties

Banking managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the branch operations of a bank, trust company, credit union or similar financial institution or of a department in such an institution responsible for administering personal and commercial loans, buying and selling securities, operating investment funds, administering trusts, settling estates or other related activities
- Ensure the institution's policies and procedures are followed according to established guidelines and make recommendations for improvement
- Network to develop business relations, promote the sale of loan, investment and other banking services and attract corporate and individual customers
- Interview corporate and individual customers and respond to customer enquiries
- Analyze, review and approve or reject loan and credit applications in accordance with authorized limits
- Monitor processing of loan applications and credit investigations
- Oversee preparation of monthly financial and branch progress reports
- Recruit personnel and identify their training needs.

Credit managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a credit department in an industrial or commercial organization
- Administer corporate, commercial and personal loan accounts
- Advise customers on the commercial and personal financial services corresponding to their needs
- Evaluate and review loan and credit applications and collateral and make recommendations
- Approve or reject credit applications, establish credit limits and determine repayment plans or schedules in accordance with authorized limits
- Ensure collection of overdue or delinquent accounts
- Ensure credit policies and procedures are followed according to established guidelines and applicable legislation
- Prepare credit and loan reports
- Recruit credit personnel and identify their training needs.

0122 Banking, Credit and Other Investment Managers

Employment requirements

- A university degree or college diploma in business administration, commerce, economics or a related field is usually required. A master's degree in business administration (M.B.A.) or finance (M.Sc.) may be required for the management of large commercial loans.
- Completion of company or other management training programs is usually required.
- Several years of experience within the industry, including supervisory experience, are required.

Additional information

- Progression to senior management positions in this field is possible with experience.

Classified elsewhere

- Mortgage brokerage managers (in 0121 *Insurance, Real Estate and Financial Brokerage Managers*)
- *Other Business Services Managers* (0123)
- *Senior Managers – Financial, Communications Carriers and Other Business Services* (0013)

0123 Other Business Services Managers

Managers in this unit group plan, organize, direct, control and evaluate the operations of establishments that provide services to business, and ensure the quality of those services and client satisfaction. They work in such fields as management consulting, market research, personnel services, payroll services, advertising services and security services.

Examples of titles classified in this unit group

accounting firm manager
employment agency manager
legal firm manager
manager, management consulting service
manager, market research service
manager, nursing registry
manager, security service
payroll service manager
personnel agency manager
professional services manager – business services
security service manager

Main duties

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of establishments that provide services to business such as management consulting, market research, personnel services, payroll services, advertising services or security services
- Plan, develop and organize the policies and procedures of these establishments
- Develop action plans, provide expertise in response to client needs, and support and advise project teams
- Direct and advise staff in the development and implementation of sales or marketing strategies
- Plan, administer and control budgets for client projects, contracts, equipment and supplies
- Represent the company within various economic and social organizations
- Assist staff with administrative or technical problems
- Interview, hire and provide training for staff.

Employment requirements

- A bachelor's degree or college diploma in a field related to the business service provided is usually required.
- Several years of experience in a field related to the business service provided are usually required.
- Licences, certificates or registration may be required for some business services managers. For example, accounting firm managers usually require accounting certification.
- University studies in business administration may be required.

Classified elsewhere

- *Architecture and Science Managers* (0212)
- *Banking, Credit and Other Investment Managers* (0122)
- *Computer and Information Systems Managers* (0213)
- *Engineering Managers* (0211)
- *Insurance, Real Estate and Financial Brokerage Managers* (0121)
- *Senior Managers – Financial, Communications and Other Business Services* (0013)

0131 Telecommunication Carriers Managers

This unit group includes managers who plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility. They are employed by wired, wireless, satellite and other telecommunications carriers.

Examples of titles classified in this unit group

director, switching systems
facilities manager, telecommunications
installation manager, telecommunications
manager, network installation
manager, telecommunications services
microwave facilities manager
network operations manager
network services manager
operations and transmission services manager
regional manager – telecommunications system
telecommunications manager
telephone company district manager

Main duties

Telecommunication carriers managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility
- Consult with senior managers to establish policies concerned with the development, operation and maintenance of telecommunications services
- Direct and control telecommunications traffic volume and flow within assigned area, through subordinate supervisors and technical staff
- Analyze and evaluate telecommunications installation, operation and maintenance services and make recommendations for improvement
- Ensure compliance with telecommunications regulations and directives of government regulatory agencies
- Liaise with representatives of related or connecting companies to resolve joint telecommunications problems and ensure efficient telecommunications system operations
- Recruit personnel and oversee their training.

Employment requirements

- A university degree in science, electrical engineering or a related field is usually required.
- Several years of experience in a related technical profession, including supervisory experience, are usually required.

Additional information

- Progression to senior management positions in telecommunications is possible with experience.

Classified elsewhere

- Broadcasting Managers (in 0512 *Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts*)
- *Senior Managers – Financial, Communications Carriers and Other Business Services* (0013)

0132 Postal and Courier Services Managers

Postal and courier services managers plan, organize, direct, control and evaluate the activities and operations in postal facilities and in establishments that provide courier services. They are employed by Canada Post Corporation and by courier companies.

Examples of titles classified in this unit group

courier service manager
mail processing plant manager
manager, collection and delivery operations
manager, mail operations
messenger service manager
parcel processing plant manager
post office manager
postal station superintendent
production control manager – postal service

Main duties

Postal and courier services managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of postal facilities and courier service companies, or of operational divisions within Canada Post and courier service companies
- Co-ordinate the duties of supervisors and other staff
- Manage the accurate and expedient movement of mail and parcels through postal and parcel sorting facilities
- Review effectiveness of assigned operations and implement changes to postal and courier operations
- Prepare and submit budget estimates and administer the expenditures of postal and courier facilities
- Interview, hire and provide training for staff.

Employment requirements

- A university degree or college diploma is usually required.
- Several years of supervisory experience or operational experience within a postal or courier facility are usually required.

Classified elsewhere

- Postmasters (in 1214 *Supervisors, Mail and Message Distribution Occupations*)

0211 Engineering Managers

Engineering managers plan, organize, direct, control and evaluate the activities of an engineering department, service or firm. They are employed by a wide range of private sector and government establishments and by consulting engineering and scientific research companies.

Examples of titles classified in this unit group

director, engineering research and development
electrical engineering service manager
engineering department manager
engineering manager
manager, telecommunications engineering service
production engineering manager

Main duties

Engineering managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of an engineering department, service or firm
- Develop and implement policies, standards and procedures for the engineering and technical work performed in the department, service, laboratory or firm
- Consult and negotiate with clients to prepare specifications, explain proposals and present engineering reports and findings
- Assign, co-ordinate and review the technical work of the department or project teams
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of technical projects or in the engineering work of the department.

Employment requirements

- A bachelor's degree in engineering or a college diploma in engineering technology is required.
- Extensive experience in an engineering discipline, including supervisory experience, is required.
- Registration as a Professional Engineer (P. Eng.) by a provincial or territorial association of professional engineers or certification as an engineering technologist (CET) is usually required.

Additional information

- Mobility to other technical managerial positions or to research or senior management positions is possible with experience.

Classified elsewhere

- *Architecture and Science Managers* (0212)
- *Computer and Information Systems Managers* (0213)
- *Construction Managers* (0711)
- Engineers and supervisors of engineers (in Major Group 21 *Professional Occupations in Natural and Applied Sciences*)
- *Manufacturing Managers* (0911)
- *Transportation Managers* (0713)
- *Utilities Managers* (0912)

0212 Architecture and Science Managers

Architecture and science managers plan, organize, direct, control and evaluate the activities of an architecture, landscape architecture, scientific or statistical department, service or firm. They are employed by a wide range of private sector and government establishments as well as by architectural firms and scientific research companies.

Examples of titles classified in this unit group

architectural manager
chief actuary
director of architecture
director of research – forestry
director of research – manufacturing
director of research – mining
director, agricultural chemical branch
landscape architecture manager
manager, life sciences program
manager, petroleum geology department
scientific research department manager
statistical service manager

Main duties

Architecture and science managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of an architecture, landscape architecture, scientific research and development laboratory or quality control department, service or firm
- Develop and implement policies, standards and procedures for the architectural, scientific and technical work performed in the department, service, laboratory or firm
- Assign, co-ordinate and review the technical work of the department or project teams
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of technical projects or in the theoretical or applied scientific work of the department
- May consult and negotiate with clients to prepare specifications, explain proposals or present architectural or scientific research reports and findings.

Employment requirements

- Architecture managers require a degree in architecture, registration as a professional architect and several years of experience as an architect.
- Science and other managers in this unit group require a master's or doctoral degree in a scientific discipline and several years of experience in a related scientific discipline.
- Landscape architecture managers require a degree in landscape architecture, licensing as a professional landscape architect and several years of experience as a landscape architect.

Additional information

- Progression to senior management positions in the respective fields is possible with experience.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Engineering Managers* (0211)
- *Primary Production Managers (Except Agriculture)* (0811)
- Science professionals and supervisors of science professionals (in Major Group 21 *Professional Occupations in Natural and Applied Sciences*)

0213 Computer and Information Systems Managers

Computer and information systems managers plan, organize, direct, control and evaluate the activities of organizations that analyze, design, develop, implement, operate and administer computer and telecommunications software, networks and information systems. They are employed throughout the public and private sectors.

Examples of titles classified in this unit group

computer systems manager
data centre manager
data processing director
EDP (electronic data processing) manager
information systems manager
manager, data processing and systems analysis
manager, management information system (MIS)
manager, software engineering
software development manager
systems development manager

Main duties

Computer and information managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of information systems and electronic data processing (EDP) departments and companies
- Develop and implement policies and procedures for electronic data processing and computer systems operations and development
- Meet with clients to discuss system requirements, specifications, costs and timelines
- Assemble and manage teams of information systems personnel to design, develop, implement, operate and administer computer and telecommunications software, networks and information systems
- Control the budget and expenditures of the department, company or project
- Recruit and supervise computer analysts, engineers, programmers, technicians and other personnel and oversee their professional development and training.

Employment requirements

- A bachelor's or master's degree in computer science, business administration, commerce or engineering is usually required.
- Several years of experience in systems analysis, data administration, software engineering, network design or computer programming, including supervisory experience, are required.

Classified elsewhere

- Computer and information systems supervisors (in group 217 *Computer and Information Systems Professionals*)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Computers Programmers and Interactive Media Developers* (2174)
- Computer services company presidents (in 0013 *Senior Managers – Financial, Communications and Other Business Services*)
- *Database Analysts and Data Administrators* (2172)
- *Information Systems Analysts and Consultants* (2171)
- LAN Managers (in 2281 *Computer and Network Operators and Web Technicians*)
- *Software Engineers* (2173)

0311 Managers in Health Care

This unit group includes managers who plan, organize, direct, control and evaluate the delivery of health care services, such as diagnosis and treatment, nursing and therapy, within institutions that provide health care services. They are employed in hospitals, medical clinics, nursing homes and other health care establishments.

Examples of titles classified in this unit group

chief of anesthesia
chief of emergency medicine
chief of medical staff
director, home care services
director, rehabilitation services
director of clinical medicine
director of dietetics
director of laboratory medicine
director of nursing – medical services
director of occupational therapy
director of physiotherapy
director of surgery
medical clinic director
mental health residential care program manager

Main duties

Managers in health care perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of health care services within a department or establishment
- Consult with boards of directors and senior managers to maintain and establish standards for the provision of health care services
- Develop evaluation systems to monitor the quality of health care given to patients
- Monitor the use of diagnostic services, in-patient beds and facilities to ensure effective use of resources
- Develop and implement plans for new programs, special projects, new material and equipment acquisitions and future staffing levels in their department or establishment
- Plan and control departmental or establishment budget
- Represent the department or establishment at meetings with government officials, the public, the media and other organizations
- Supervise health care supervisors and professionals
- Recruit health care staff of the department or establishment.

Managers in health care specialize in administering the provision of specific health care services such as dietetics, clinical medicine, laboratory medicine, nursing, physiotherapy or surgery.

Employment requirements

- Administrators of departments such as surgery, clinical medicine or laboratory medicine are usually required to have the education and training of a specialist physician.
- Administrators of other departments, such as nursing, dietetics or physiotherapy, are usually required to have the education and training of the medical professionals in that department.
- Several years of experience in the relevant profession, including supervisory experience, are usually required.
- Certification in the relevant profession is required.

Additional information

- There is little or no mobility between departments in different medical specializations.
- Progression to senior management positions in health care services is possible with experience.

Classified elsewhere

- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Senior Managers – Health, Education, Social and Community Services and Membership Organizations* (0014)

0312 Administrators – Post-Secondary Education and Vocational Training

This unit group includes faculty administrators and registrars of colleges or universities and administrators of vocational training schools. Faculty administrators manage the academic and related activities of faculties of colleges or universities. Registrars manage registration activities and academic records systems of colleges or universities. Administrators of vocational training schools manage the operations of vocational schools specializing in trades, technology, business or other vocational subjects.

Examples of titles classified in this unit group

community college dean
dean – university or college
dean of adult education
dean, faculty of science
dean, school of nursing
dean, school of technology
manager, aviation school
manager, business school
manager, trade school
registrar, community college
student activities dean
university registrar

Main duties

Faculty administrators perform some or all of the following duties:

- Plan, organize, direct, control and evaluate academic and related activities of a college or university faculty
- Recommend and approve faculty appointments
- Recommend curriculum revisions and additions and approve scheduling of courses
- Direct, through subordinate staff, activities such as research and curriculum development
- Plan, administer and control budgets for projects, programs, support services and equipment
- Advise president or rector of university or college
- Participate in activities of various faculty and college committees.

Registrars perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the registration activities and academic records system of a college or university
- Review registration statistics and consult with faculty officials to develop registration policies
- Direct activities of staff and others engaged in compiling information on courses, schedules and requirements for admission and graduation.

Administrators of vocational training schools perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a private college or institute specializing in trades, technology or business
- Develop curriculum for training programs
- Consult with government regulatory and licensing agencies to ensure conformance to provincial standards
- Plan, administer and control budgets for projects, programs, support services and equipment
- May recruit and hire teachers and other staff
- May teach.

Employment requirements

- Faculty administrators require a graduate degree in a field related to the academic faculty and several years of experience as a university professor or college teacher.
- Registrars require an undergraduate degree in business administration or a related field and several years of experience in registration administration.
- Administrators of vocational training schools usually require an undergraduate degree in business administration or expertise and certification in a subject of instruction.

0312 Administrators – Post-Secondary Education and Vocational Training

Additional information

- Progression to some senior management positions in education is possible with experience.
- There is no mobility among the various types of administrators in this group.

Classified elsewhere

- Administrators of non-vocational training schools, such as driving schools (in 0651 *Other Services Managers*)
- *College and Other Vocational Instructors* (4131)
- College rectors (in 0014 *Senior Managers – Health, Education, Social and Community Services and Membership Organizations*)
- *School Principals and Administrators of Elementary and Secondary Education* (0313)
- University Presidents (in 0014 *Senior Managers – Health, Education, Social and Community Services and Membership Organizations*)
- *University Professors* (4121)

0313 School Principals and Administrators of Elementary and Secondary Education

School principals plan, organize, direct, control and evaluate the activities of teachers and other staff of an elementary or secondary school. They are employed by public and private schools. Administrators of elementary and secondary education plan, organize, direct, control and evaluate the academic affairs of a school system. They are employed by school boards.

Examples of titles classified in this unit group

administrator, board of education
chief superintendent – schools
director of education, correctional institution
director of school for the hearing impaired
district school superintendent
headmaster, private school
school principal
secondary school principal
superintendent of elementary education
superintendent of secondary schools
superintendent of special education
vice-principal, school

Main duties

School principals perform some or all of the following duties:

- Plan, organize, direct, control and evaluate, through department heads or supervisors, the activities of teachers and support staff
- Review programs to ensure conformance to school board or provincial standards and develop programs within limits of authority
- Co-ordinate teaching activities of the institution by making personnel assignments, determining class size and preparing timetables
- Organize and maintain procedures for the keeping of records
- Prepare and administer institution or program budget
- Direct and co-ordinate school maintenance services and the use of school facilities
- May recruit and hire teachers and other staff
- May teach.

Administrators of elementary and secondary education perform some or all of the following duties:

- Plan, organize, direct, control and evaluate, through school principals, the academic affairs of a school district
- Evaluate curriculum, teaching methods and community participation in programs for a school district and revise programs as required
- Develop and administer programs for the education and training of students and adults
- Make recommendations concerning the annual operating budget of a school district
- Direct or supervise the recruitment, appointment, training, evaluation and promotion of teaching personnel.

Employment requirements

- A bachelor's degree in education is required.
- A master's degree in education may be required.
- Several years of experience as a senior teacher or department head are required.
- A teacher's certificate for the province of employment is required.
- School principals may require a principal's certificate.
- Administrators of elementary and secondary education may require a supervisory officer certificate.

Additional information

- There is little mobility between institutional settings, for example, between elementary and secondary schools.

Classified elsewhere

- *Administrators – Post-Secondary Education and Vocational Training* (0312)
- *Education Policy Researchers, Consultants and Program Officers* (4166)
- *Government Managers – Education Policy Development and Program Administration* (0413)
- *Senior Managers – Health, Education, Social and Community Services and Membership Organizations* (0014)

0314 Managers in Social, Community and Correctional Services

This unit group includes managers who plan, organize, direct, control and evaluate the programs and activities of social service and community agencies, correctional institutions, counselling departments, labour organizations, professional associations, political parties and non-governmental organizations.

Examples of titles classified in this unit group

administrator, child welfare services
area manager, family services
association director
children's aid society director
correctional institution director
detention centre director
director, community centre
director, correctional treatment and training
environmental group director
income maintenance director
labour organization manager
membership services manager
political organization manager
prison warden
regional administrator, social services
social assistance director
social work director
trade association manager
volunteer services director

Main duties

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of social and community service programs such as income maintenance, children's aid and emergency housing services
- Manage the operations and activities of correctional facilities and detention centres
- Administer the programs of non-governmental organizations involved with social issues such as health care, human rights, consumer protection, international development and environmental protection
- Administer programs of membership organizations such as political parties, labour organizations, business and professional associations
- Establish administrative procedures to meet objectives set by board of directors or senior management
- Direct and advise professional and non-professional staff delivering services and programs to the general public and to the organization or association membership
- Plan, administer and control budgets for programs, equipment and support services
- Represent their respective organizations for the purpose of government liaison and media relations
- Participate in policy development by preparing reports and briefs for management committees and working groups
- Hire and provide training for professional and non-professional staff.

Employment requirements

- Managers in social, community and correctional services usually require a master's degree in a social science or administrative discipline
  and
  Several years of experience in a related occupation, such as a community and social service worker, social or health policy researcher, consultant or program officer, probation or parole officer, or social worker.
- Managers of associations and membership organizations require extensive experience in a related occupation, trade or industry.

Additional information

- Progression to senior management positions in social, community and correctional services is possible with additional training and experience.

Classified elsewhere

- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Senior Managers – Health, Education, Social and Community Services and Membership Organizations* (0014)

0411 Government Managers – Health and Social Policy Development and Program Administration

Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of health care policies, social policies and related programs designed to protect and promote the health and social welfare of individuals and communities. These managers are employed by government departments and agencies.

Examples of titles classified in this unit group

city medical officer of health
director, health information and promotion
director, housing policy and development
immigration and settlement director
manager, health program operations
manager, social services planning
social services director

Main duties

Government managers in health and social policy development and program administration perform some or all of the following duties:

- Participate in the development of health or social policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise health or social policy researchers, consultants or program officers who conduct research, prepare documents or administer programs for individuals and communities in areas such as health and social services, employment and immigration, labour or housing
- Plan, administer and control budgets for research and administration, support services and equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate health and social services projects and programs
- Interview, hire and provide training for staff.

Employment requirements

Government managers in health policy development and program administration

- A bachelor's degree or college diploma in health science, hospital administration or public administration or a bachelor's degree in social science is required.
- A graduate degree in a health, social science or administrative discipline may be required.
- Several years of experience as a health or social policy researcher, consultant or program officer are usually required.
- For some government managers in health policy development and program administration, certification in the relevant health profession is required. For example, city medical officers of health must be physicians.

Government managers in social policy development and program administration

- A bachelor's degree or a college diploma in a social science discipline, such as sociology or economics, or an administrative discipline, such as public administration, is required.
- A graduate degree in a social science or an administrative discipline may be required.
- Several years of experience as a social policy researcher, consultant or program officer is usually required.

Additional information

- Progression to senior management positions in the health and social policy fields is possible with experience.

0411 Government Managers – Health and Social Policy Development and Program Administration

Classified elsewhere

- *Government Managers – Economic Analysis, Policy Development and Program Administration* (0412)
- *Government Managers – Education Policy Development and Program Administration* (0413)
- *Managers in Health Care* (0311)
- *Managers in Social, Community and Correctional Services* (0314)
- *Other Managers in Public Administration* (0414)
- *Senior Government Managers and Officials* (0012)

0412 Government Managers – Economic Analysis, Policy Development and Program Administration

Government managers in this unit group plan, organize, direct, control and evaluate economic policy, research and programs in areas of government activity such as taxation, international trade, labour markets, transportation or agriculture. They also plan and direct policies and programs to promote industrial and commercial business development in urban and rural areas. They are employed in government departments and agencies.

Examples of titles classified in this unit group

chief, economic analysis
chief, forest resource analysis
customs manager
director, business development
director, economic development
director, economic policy analysis
director, energy market analysis
director, excise tax programs
director, farm products marketing
international trade policy manager
manager, grain market analysis
manager, revenue programs
manager, tax policy research
taxation manager
tourism development director
trade development director

Main duties

Government managers in economic analysis and program administration perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the development of economic policy research projects and economic programs
- Participate in the development of departmental policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise economists and other professional staff who conduct economic research, prepare reports or administer programs in areas of government activity such as taxation, international trade, labour, transportation or agriculture
- Direct and advise economic development officers or other staff administering programs to promote industrial and commercial business investment in urban or rural areas
- Plan, administer and control research and administration budgets for projects, support services, equipment or supplies
- Organize and direct committees evaluating departmental or agency projects or programs
- Interview, hire and oversee training and professional development.

Employment requirements

- A bachelor's degree in economics, business administration, commerce or public administration is required.
- A master's degree in economics or a related field may be required.
- Several years of experience as an economist, economic development officer or socio-economic researcher are required.

Additional information

- Progression to senior management positions is possible with experience.

Classified elsewhere

- *Business Development Officers and Marketing Researchers and Consultants* (4163)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Financial Managers* (0111)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- Labour policy analysts (in 4164 *Social Policy Researchers, Consultants and Program Officers*)
- *Senior Government Managers and Officials* (0012)

0413 Government Managers – Education Policy Development and Program Administration

Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of elementary, secondary and post-secondary education policies and programs. They are employed by government departments and agencies.

Examples of titles classified in this unit group

director, education curriculum development
director, education policy analysis and research
director, school inspection
education director
manager, education program administration

Main duties

Government managers in this unit group perform some or all of the following duties:

- Participate in the development of education policy by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise policy researchers or program officers conducting research, preparing documents or administering programs for elementary and secondary school systems
- Plan, administer and control budgets for projects, programs, support services and equipment
- Organize and direct committees and working groups to plan, manage or evaluate education projects and programs
- Interview, hire and provide training for staff.

Employment requirements

- A bachelor's degree in education is required.
- A master's degree in a particular educational specialization may be required.
- Several years of combined experience as a school teacher and as a government educational policy researcher, consultant or program officer are usually required.
- A provincial teaching certificate is usually required.

Additional information

- Progression to senior management positions in education is possible with experience.

Classified elsewhere

- *Administrators – Post-Secondary Education and Vocational Training* (0312)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *School Principals and Administrators of Elementary and Secondary Education* (0313)
- *Senior Government Managers and Officials* (0012)

0414 Other Managers in Public Administration

Managers in this unit group plan, organize, direct, control and evaluate the development of policies and programs which govern the daily operations of legislatures and other activities unique to government such as intergovernmental affairs and elections. They are employed by government departments, agencies and legislative bodies.

Examples of titles classified in this unit group

clerk of the committee, Legislative Assembly
director, election planning
director, federal-provincial relations
director, intergovernmental affairs

Main duties

Managers in this unit group perform some or all of the following duties:

- Participate in the development of policies and programs by providing advice to senior government managers of legislatures or departments or agencies involved in activities unique to government
- Organize government unit or agency and establish procedures to meet objectives set by senior management
- Direct and advise professional and non-professional staff conducting research, preparing documents or providing administrative support
- Plan, administer and control research and administration budgets for projects, programs, equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate projects and programs
- Interview, hire and provide training for staff.

Employment requirements

- A bachelor's degree in a social science discipline, law or business administration is required.
- Several years of experience in government policy development, research or program administration, or in a professional occupation in social science, law or business administration are usually required.

Additional information

- Progression to senior management positions in this field is possible with experience.

Classified elsewhere

- *Administrative Services Managers* (011)
- *Government Managers – Economic Analysis, Policy Development and Program Administration* (0412)
- *Government Managers – Education Policy Development and Program Administration* (0413)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Senior Government Managers and Officials* (0012)

0511 Library, Archive, Museum and Art Gallery Managers

This unit group includes managers who plan, organize, direct, control and evaluate the activities of libraries, archives, museums, art galleries or departments within such institutions. They are employed in libraries, archives, museums and non-retail art galleries.

Examples of titles classified in this unit group

archives director
art gallery manager
assistant director of archives
chief librarian
executive director, museum
library director
museum administrator

Main duties

Library, archive, museum and art gallery managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a library or library system, archive or archive system, museum or art gallery or a technical department within such an institution
- Develop and administer policies and programs
- Develop, promote and implement public relations and promotional programs
- Prepare funding and grant applications and proposals
- Prepare and administer budgets
- Recruit and provide training for professional, technical and clerical staff
- May perform the duties of a librarian, archivist or curator in smaller institutions.

Library, archive, museum and art gallery managers may specialize in a specific type of collection.

Employment requirements

- Library managers require a graduate degree in library and information science
  and
  Several years of experience as a librarian, including supervisory experience.
- Archive managers require a graduate degree in archival science or history
  and
  Several years of experience as an archivist or in historical research, including supervisory experience.
- Museum and art gallery managers usually require a graduate degree related to a particular collection or a training program in arts administration
  and
  Several years of experience as a curator, conservator or artist or experience in other related museum and art gallery work.

Additional information

- There is mobility between library and archive managers and between museum and art gallery managers.

Classified elsewhere

- *Archivists* (5113)
- *Conservators and Curators* (5112)
- *Librarians* (5111)

0512 Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts

Managers in this unit group plan, organize, direct, control and evaluate operations within publishing firms, film, theatre and record production companies and broadcasting facilities. They are employed by radio and television stations, by newspaper, periodical and book publishing firms, and by film, theatre, record and video production companies.

Examples of titles classified in this unit group

ballet company director
book publishing manager
broadcasting manager
copyright manager – publishing
dance company director
editor-in-chief
manager, radio station
managing editor
opera company director
publishing manager
radio programming manager
station manager, broadcasting
television station manager
theatre company manager
video production company manager

Main duties

Managers in this unit group perform some or all of the following duties:

- Establish procedures and implement policies in newspaper and publishing firms, in film, theatre, record and video production companies, and in radio and television stations
- Plan and maintain production schedules for publications, films, broadcasts, and theatre, record and video productions
- Prepare and control budgets
- Hire and supervise staff
- Consult with government regulatory agencies to evaluate and review programs and policies to ensure conformance to regulations
- Initiate or approve development of articles, books, films, broadcasts, musical recordings and theatre productions, and liaise with authors, composers, producers and directors.

Employment requirements

- A university degree or college diploma in communications, broadcasting, journalism or other arts discipline is usually required.
- Several years of experience within the publishing, film production, broadcasting or theatre industry are usually required.

Classified elsewhere

- *Producers, Directors, Choreographers and Related Occupations* (5131)
- Publishers (in 0016 *Senior Managers – Goods Production, Utilities, Transportation and Construction*)
- *Senior Managers – Trade, Broadcasting and Other Services, n.e.c.* (0015)

0513 Recreation and Sports Program and Service Directors

This unit group includes managers who plan, organize, direct, control and evaluate the operations of comprehensive recreational and sports programs and services, national or provincial sports governing agencies and professional athletic teams. They are employed by municipalities, community and private recreational organizations, sport governing agencies and professional athletic team organizations.

Examples of titles classified in this unit group

director of recreation
director of sports administration
professional football team manager
professional hockey team manager
professional track-and-field team manager
recreation director
sports association director
sports federation director
sports program director
YMCA (Young Men's Christian Association) programs director

Main duties

Managers and directors in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of recreation and sports programs and services
- Provide technical and professional advice on recreation and sports matters
- Prepare budget estimates and develop policies and procedures to implement programs
- Manage the operations of a sports governing agency
- Organize and administer national and provincial training, coaching, officiating and other programs associated with a particular sport
- Manage the operations of a professional athletic team
- Recruit professional coaches and athletes
- Direct fundraising drives and arrange for sponsorships from public and private organizations
- Develop long range plans and negotiate business contracts.

Employment requirements

- A university degree in recreology, physical education, sports administration or a related field
  or
  A college diploma in recreation management or sports administration is usually required.
- Several years of experience in an occupation related to recreation and sports administration, consulting or programming are usually required.
- Some directors of recreation may be required to have a Municipal Recreation Director's Certificate.
- Executive directors of sports governing agencies may be required to have coaching certification in a particular sport.

Classified elsewhere

- *Coaches* (5252)
- *Recreation, Sports and Fitness Program Supervisors and Consultants* (4167)
- *Sports Officials and Referees* (5253)

0611 Sales, Marketing and Advertising Managers

Sales, marketing and advertising managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial, wholesale and e-business sales, marketing, advertising and public relations. They are employed by commercial, industrial and wholesale establishments, marketing and public relations consulting companies and by government departments.

Examples of titles classified in this unit group

advertising director
corporate sales manager
director, communications
director, media relations
director, public relations
e-commerce manager
fund-raising campaign manager
internet communications manager
marketing manager
promotions manager
regional sales manager
sales and marketing manager
web communications manager
web marketing manager

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Sales managers plan, direct and evaluate the activities of sales departments in commercial, industrial, wholesale and other non-retail establishments.
- Marketing managers establish distribution networks for products and services, initiate market research studies and analyze their findings, assist in product development, direct and evaluate the marketing strategies of establishments.
- Advertising managers plan, direct and evaluate the activities of firms and departments that develop and implement advertising campaigns to promote the sales of products and services.
- Public relations managers direct and evaluate establishments and departments that develop and implement communication strategies and information programs, publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations.
- E-commerce managers plan, organize, direct, control and evaluate the design, development and maintenance of internet and intranet sites to manage an organization's internet presence including public relations, communications and commercial activities.

Employment requirements

- Sales and marketing managers require a university degree or college diploma in business administration or in a related field with a specialization in sales or marketing
  and
  Several years of experience as a sales or marketing representative or in a related occupation.
- Advertising and public relations managers require a university degree or college diploma in public relations, communications, marketing, journalism or in a related field
  and
  Several years of experience as an advertising officer, public relations officer, communications officer or in a related occupation.
- E-commerce managers usually require a university degree or college diploma in a field related to the content of the web site
  and
  Experience in web site design, interactive media development, data administration or information systems analysis or experience related to the content of the web site.

Additional Information

- Progression to senior management positions is possible with experience.

Classified elsewhere

- *Professional Occupations in Public Relations and Communications* (5124)
- *Retail Trade Managers* (0621)
- *Retail Trade Supervisors* (6211)
- *Senior Managers – Trade, Broadcasting and Other Services, n.e.c.* (0015)

0621 Retail Trade Managers

Retail trade managers plan, organize, direct, control and evaluate the operations of establishments that sell merchandise or services on a retail basis. Retail trade managers are employed by retail sales establishments or they may own and operate their own store.

Examples of titles classified in this unit group

antique dealer
assistant manager, retail
bookstore manager
car dealership manager
clothing store manager
department store manager
pleasure boat dealer
service station manager
sporting goods store manager
store manager, retail
supermarket manager
travel agency manager
variety store manager

Main duties

Retail trade managers perform some or all of the following duties:

- Plan, direct and evaluate the operations of establishments engaged in retail sales or of departments in such establishments
- Manage staff and assign duties
- Study market research and trends to determine consumer demand, potential sales volumes and effect of competitors' operations on sales
- Determine merchandise and services to be sold, and implement price and credit policies
- Locate, select and procure merchandise for resale
- Develop and implement marketing strategies
- Plan budgets and authorize expenditures
- Determine staffing requirements and hire or oversee hiring of staff.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business administration or other field related to the product or service being sold may be required.
- Several years of related retail sales experience at increasing levels of responsibility are usually required.

Additional information

- There is some mobility between managers in this unit group, depending on the product or service.

Classified elsewhere

- *Insurance, Real Estate and Financial Brokerage Managers* (0121)
- *Restaurant and Food Service Managers* (0631)
- *Retail Trade Supervisors* (6211)
- *Sales, Marketing and Advertising Managers* (0611)

0631 Restaurant and Food Service Managers

Restaurant and food service managers plan, organize, direct, control and evaluate the operations of restaurants, bars, cafeterias and other food and beverage services. They are employed in food and beverage service establishments, or they may be self-employed.

Examples of titles classified in this unit group

assistant manager, restaurant
banquet manager
bar manager
cafeteria manager
catering service manager
dining room manager
food services manager
hotel food and beverage service manager
restaurant manager
restaurateur

Main duties

Restaurant and food service managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a restaurant, bar, cafeteria or other food or beverage service
- Determine type of services to be offered and implement operational procedures
- Recruit staff and oversee staff training
- Set staff work schedules and monitor staff performance
- Control inventory, monitor revenues and modify procedures and prices
- Resolve customer complaints and ensure health and safety regulations are followed
- Negotiate arrangements with suppliers for food and other supplies
- Negotiate arrangements with clients for catering or use of facilities for banquets or receptions.

Employment requirements

- Completion of a college or other program related to hospitality or food and beverage management is usually required.
- Several years of experience in the food service sector, including supervisory experience, are required.

Additional information

- Progression to senior management in food service is possible with experience.

Classified elsewhere

- *Dietitians and Nutritionists* (3132)
- Executive chefs (in 6241 *Chefs*)
- *Food Service Supervisors* (6212)
- Senior managers in food service (in 0015 *Senior Managers – Trade, Broadcasting and Other Services, n.e.c.*)

0632 Accommodation Service Managers

Accommodation service managers plan, organize, direct, control and evaluate the operations of an accommodation establishment or of a department within such an establishment. They are employed by hotels, motels, resorts, student residences and other accommodation establishments, or they may be self-employed.

Examples of titles classified in this unit group

assistant manager, hotel
bed and breakfast operator
front desk manager
guest-house operator
hotel director
hotel manager
motel manager
reservations manager
seasonal resort manager
ski resort manager
tourist home operator

Main duties

Accommodation service managers perform some or all of the following duties:

- Develop, implement and evaluate policies and procedures for the operation of the department or establishment
- Prepare budgets and monitor revenues and expenses
- Participate in the development of pricing and promotional strategies
- Negotiate with suppliers for the provision of materials and supplies
- Negotiate with clients for the use of facilities for conventions, banquets, receptions and other functions
- Recruit and supervise staff, oversee training and set work schedules
- Resolve customer complaints.

Employment requirements

- A university degree or college diploma in hotel management or other related discipline is usually required for managers employed by hotel chains or large accommodation establishments.
- Several years of experience within the accommodation industry are usually required and may substitute for formal educational requirements.

Classified elsewhere

- *Executive Housekeepers* (6213)
- *Facility Operation and Maintenance Managers* (0721)
- *Restaurant and Food Service Managers* (0631)
- *Retail Trade Managers* (0621)
- *Sales, Marketing and Advertising Managers* (0611)

0641 Commissioned Police Officers

Commissioned police officers plan, organize, direct, control and evaluate police force administration and police activities such as maintaining law and order and detecting and preventing crime. They are employed by municipal, provincial and federal governments. This unit group includes officers from the rank of staff sergeant to police commissioner. Commissioned officers in the railway police are also included in this unit group.

Examples of titles classified in this unit group

chief superintendent
deputy police chief
harbour police chief
police chief
police lieutenant
police superintendent
railway police chief
RCMP (Royal Canadian Mounted Police) commissioner
staff inspector

Main duties

Commissioned police officers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a police force or division of a police force
- Develop and implement police force policies and procedures
- Oversee police investigations and ensure that procedures are conducted in accordance with laws and regulations
- Assess performance of subordinates and authorize promotions, transfers and disciplinary actions.

Employment requirements

- Completion of secondary school is required.
- A university degree in the social sciences or in business administration may be required.
- Several years of experience as a police officer are required.

Classified elsewhere

- *By-law Enforcement and Other Regulatory Officers, n.e.c.* (6463)
- *Police Officers (Except Commissioned)* (6261)
- *Sheriffs and Bailiffs* (6461)

0642 Fire Chiefs and Senior Firefighting Officers

Fire chiefs and senior firefighting officers plan, organize, direct, control and evaluate firefighting operations and fire prevention activities in fire departments. Fire chiefs and senior firefighting officers are employed by municipal and federal governments and by industrial establishments with firefighting services.

Examples of titles classified in this unit group

deputy fire chief
district fire chief
fire chief

Main duties

Fire chiefs and senior firefighting officers perform some or all of the following duties:

- Develop, implement and evaluate policies and procedures for the operation of a municipal fire department, a district fire region or an industrial firefighting service
- Plan, direct and co-ordinate firefighting strategies for fire departments
- Direct the training of personnel in firefighting methods
- Develop and oversee the implementation of fire prevention campaigns
- Represent the fire department in communications with government, the media and the public.

Employment requirements

- Completion of secondary school is required.
- Completion of a provincial or municipal firefighters training course is required.
- A minimum of 10 years of experience as a firefighter is usually required before becoming eligible for a senior officer position.

Classified elsewhere

- *Firefighters* (6262)

0643 Commissioned Officers, Armed Forces

This unit group consists of commissioned officers in the armed forces who plan, organize, command and evaluate the activities of armed forces personnel in occupations unique to the armed forces such as artillery and infantry units, military intelligence units and air weapons control units. The ranks of commissioned officers included in this unit group range from lieutenant to general.

Examples of titles classified in this unit group

air weapons control officer
armour officer
artillery officer
infantry officer
intelligence officer (management)

Main duties

Commissioned officers, armed forces perform some or all of the following duties:

- Plan, organize and command the activities of military combat units such as armour, artillery and infantry battalions
- Develop and implement military procedures and policies based on detailed knowledge of units' capabilities and performance
- Direct subordinates in training and co-ordinate and direct activities of units in accordance with military practices
- Assume responsibility for welfare, morale and discipline of units
- Review and evaluate unit performance, prepare reports and provide briefings for superiors
- May command and lead units as part of United Nations' peacekeeping role in foreign countries.

Employment requirements

- A university degree is usually required.
- Completion of military training is required.
- Experience as a non-commissioned member of the armed forces and demonstrated leadership ability may substitute for a university degree.
- Senior ranks, such as colonel, require several years of experience.

Additional information

- Data provided by Statistics Canada for *Commissioned Officers Armed Forces* (0643) includes all commissioned officers. For further information, see Introduction to the NOC.

Classified elsewhere

- *Occupations Unique to the Armed Forces* (6464)

Commissioned officers whose occupations have civilian counterparts are classified with those occupations. For example:

- Dental officer – military (in 3113 *Dentists*)
- Legal officer – military (in 4112 *Lawyers and Quebec Notaries*)
- Military engineering officer, civil (in 2131 *Civil Engineers*)
- Pilot – military (in 2271 *Air Pilots, Flight Engineers and Flying Instructors*)

0651 Other Services Managers

This unit group includes managers of establishments that provide services not elsewhere classified, such as dry cleaning, hairdressing or residential cleaning. This group also includes managers of schools that provide non-vocational instruction in driving, languages, music, dance, art, cooking or fashion.

Examples of titles classified in this unit group

barber shop manager
car wash manager
cooking school manager
driving school manager
dry cleaning service manager
hairdressing salon manager
manager, residential cleaning service
manager, septic tank service
manager, window washing service
pest control service manager

Main duties

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of an establishment providing services such as dry cleaning, hairdressing or residential cleaning, or a school providing non-vocational instruction in driving, languages, music, dance, art, cooking or fashion
- Establish or implement policies and procedures for staff
- Plan and control budget and inventory
- Respond to inquiries or complaints and resolve problems
- Manage contracts for advertising or marketing strategies
- Hire, train and supervise staff.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma or vocational certificate in the subject of instruction may be required.
- One to three years of experience in the service being offered are usually required.

Classified elsewhere

- *Accommodation Service Managers* (0632)
- *Cleaning Supervisors* (6215)
- *Executive Housekeepers* (6213)
- *Other Business Services Managers* (0123)
- *Retail Trade Managers* (0621)
- *Retail Trade Supervisors* (6211)

0711 Construction Managers

Construction managers plan, organize, direct, control and evaluate the activities of a construction company or a construction department within a company, under the direction of a general manager or other senior manager. They are employed by residential, commercial and industrial construction companies and by construction departments of companies outside the construction industry.

Examples of titles classified in this unit group

commercial construction manager
construction manager
construction superintendent
general contractor
housing construction manager
industrial construction manager
pipeline construction manager
project manager, construction
residential construction manager

Main duties

Construction managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate construction projects from start to finish according to schedule, specifications and budget
- Prepare and submit construction project budget estimates
- Plan and prepare construction schedules and milestones and monitor progress against established schedules
- Prepare contracts and negotiate revisions, changes and additions to contractual agreements with architects, consultants, clients, suppliers and subcontractors
- Develop and implement quality control programs
- Represent company on matters such as business services and union contracts negotiation
- Prepare progress reports and issue progress schedules to clients
- Direct the purchase of building materials and land acquisitions
- Hire and supervise the activities of subcontractors and subordinate staff.

Employment requirements

- A university degree in civil engineering or a college diploma in construction technology is usually required.
- A master's degree in project management may be required.
- Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required.
- Extensive experience in the construction industry may substitute for post-secondary education requirements.
- Professional engineering status or construction trade certification may be required by some employers.

Additional information

- Progression to senior management positions is possible with experience.

Classified elsewhere

- *Residential Home Builders and Renovators* (0712)
- *Senior Managers – Goods Production, Utilities, Transportation and Construction* (0016)

0712 Residential Home Builders and Renovators

Residential home builders own, operate and manage companies engaged in the construction of new residential homes. Residential home renovators own, operate and manage companies engaged in the renovation of existing residential homes.

Examples of titles classified in this unit group

contractor, home renovation
contractor, residential homes
home builder
home renovator
renovation contractor
residential home builder

Main duties

Residential home builders and renovators perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a residential home building or renovating company
- Prepare bids for home construction or renovation projects
- Consult with customers, architects and engineers regarding plans and specifications
- Select and employ trade subcontractors to do specialized work, such as plumbing, heating and electrical work
- Plan and prepare work schedules and co-ordinate the activities of subcontractors
- Inspect work performed by subcontractors to ensure quality and conformity with plans and specifications
- Prepare and maintain a directory of suppliers and trade subcontractors
- Develop and implement marketing and advertising strategies to promote company's products and services
- May perform carpentry or other trade work during home construction or renovation activities.

Employment requirements

- Extensive experience in the home construction industry, including experience as a general supervisor, is usually required for self-employment as a home builder or a home renovator.

Classified elsewhere

- Carpentry, electrical and other construction trade contractors (in 721 *Contractors and Supervisors, Trades and Related Workers*)
- *Construction Managers* (0711)

0713 Transportation Managers

Transportation managers, operations plan, organize, direct, control and evaluate the operations of transportation companies such as railways, airlines, bus lines, municipal transit systems, shipping lines and trucking companies, under the direction of a general manager or other senior manager. Transportation managers, freight traffic plan, organize, direct, control and evaluate companies or departments responsible for the transportation and movement of goods, under the direction of a general manager or other senior manager. They are employed by transportation, freight forwarding and shipping companies and by transportation departments of companies in retail and manufacturing sectors and utilities.

Examples of titles classified in this unit group

bus company manager
flight operations manager
freight forwarding manager
marine superintendent
railway freight manager
superintendent, rail operations
traffic manager
transport department manager
transportation manager
urban transit system manager

Main duties

Transportation managers, operations perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a transportation company
- Set operations policies and standards, including determination of safety procedures for the handling of dangerous goods, and ensure compliance with transport regulations
- Oversee dispatch of vehicles, vessels or aircraft
- Control the company or departmental budget, including acquisitions
- Monitor company's or department's performance, prepare reports for senior management, and plan for changes to schedules and policies
- Recruit personnel and oversee their training.

Transportation managers, freight traffic perform some or all of the following duties:

- Plan, organize, direct, control and evaluate companies or departments responsible for coordinating, arranging and monitoring the transportation and movement of goods
- Arrange for shipping documentation and oversee the scheduling and dispatching of goods and the tracking and tracing of goods in transit
- Set performance goals, oversee the setting of transportation service rates and monitor revenue
- Develop plans and procedures for the transportation and storage of goods
- Negotiate with carriers, warehouse operators and insurance company representatives for services and preferential rates
- Control the departmental budget
- Recruit personnel and oversee their training.

Employment requirements

Transportation managers, operations

- A bachelor's degree in business administration or engineering is usually required.
- Several years of experience in transportation operations are usually required, including supervisory experience.
- Extensive experience as a supervisor and operator in a particular transport mode, such as a pilot, train engineer, vessel master or truck driver, may substitute for formal education.
- Certification as an operator of a particular mode of transportation, such as commercial pilot, vessel master or truck driver, is usually required.

Transportation managers, freight traffic

- Completion of secondary school is required.
- A college diploma or university degree in business or transportation administration may be required.
- Several years of clerical, operational or administrative experience related to freight traffic are required.

0713 Transportation Managers

Additional information

- There is little or no mobility between transportation managers, operations and transportation managers, freight traffic.
- There is little or no mobility between transportation managers of land, sea and air transportation operations.

Classified elsewhere

- Airport managers, harbour masters and other managers of transportation facilities (in 0721 *Facility Operation and Maintenance Managers*
- Senior transportation managers (in 0016 *Senior Managers – Goods Production, Utilities, Transportation and Construction*)

0721 Facility Operation and Maintenance Managers

Facility operation managers plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities. Facility operation managers are employed by a wide range of establishments, such as airports, harbours, canals, shopping centres, convention centres, warehouses and recreation facilities. Maintenance managers plan, organize, direct, control and evaluate the maintenance department within commercial, industrial, institutional, recreational and other facilities. Maintenance managers are employed by a wide range of establishments, such as office buildings, shopping centres, airports, harbours, warehouses, grain terminals, universities, schools and sports facilities, and by the maintenance and mechanical engineering departments of manufacturing and other industrial establishments.

Examples of titles classified in this unit group

airport manager
arena manager
campus maintenance manager
chief, maintenance support services
facility operation manager
harbour master
head, facilities maintenance
maintenance manager
mechanical superintendent
plant maintenance superintendent
recreational facility manager
shopping mall manager
superintendent, maintenance and service
warehouse manager

Main duties

Facility operation managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities
- Oversee the leasing of facility space and the development of marketing strategies
- Plan, organize and direct administrative services such as signage, cleaning, maintenance, parking, safety inspections, security and snow removal
- Oversee the maintenance and repair of machinery, equipment and electrical and mechanical systems
- Plan and manage the facility's operations budget
- Prepare or oversee the preparation of reports and statistics related to areas of responsibility
- Recruit personnel and oversee their training.

Maintenance managers perform some or all of the following duties:

- Direct the maintenance and repair of an establishment's machinery, equipment and electrical and mechanical systems
- Develop and implement schedules and procedures for safety inspections and preventive maintenance programs
- Co-ordinate cleaning, snow removal and landscaping operations
- Administer contracts for the provision of supplies and services
- Plan and manage a facility's maintenance budget
- Recruit personnel and oversee their training.

Employment requirements

- Facility operation managers require completion of a college or university program in business administration or in a discipline related to facility operation and maintenance

  or

  An equivalent combination of technical training and experience in administration or maintenance.
- Maintenance managers require completion of a college or university program in electrical or mechanical engineering or in another discipline related to building maintenance

  or

  An equivalent combination of technical training and experience in building.
- Several years of supervisory experience in facility operations or maintenance are usually required.

Classified elsewhere

- *Administrative Services Managers* (011)
- Building superintendents (in 6663 *Janitors, Caretakers and Building Superintendents*)
- Manager, grain elevator (in 6234 *Grain Elevator Operators*)
- Production operations managers (in 0911 *Manufacturing Managers*)

0811 Primary Production Managers (Except Agriculture)

This unit group includes managers who plan, organize, direct, control and evaluate the operations of establishments in the following primary industries: forestry and logging, mining and quarrying, oil and gas drilling, production and servicing operations, and commercial fishing.

Examples of titles classified in this unit group

director of mining
manager, drilling operations
manager, fishing operations
manager, forestry operations
manager, gas field operations
manager, oil well servicing
mine manager
quarry manager
shore captain – fishing

Main duties

Primary production managers in this unit group perform some or all of the following duties:

- Oversee and analyze operations in forestry, logging, mining, quarrying, or oil and gas operations or in services to logging, mining and oil and gas industries, or in commercial fishing
- Recommend operational changes to senior management when necessary to ensure that production quotas and procedures are met
- Prepare production reports for review by senior management
- Confer with other managers to set production quotas, to plan extraction sites and to develop policies for the removal of raw materials
- Evaluate efficiency of production sites to determine adequacy of personnel, equipment and technologies used, and make changes to work schedule or equipment when necessary
- Ensure adherence to safety regulations
- Hire personnel and oversee training needs of staff
- May direct peripheral activities such as the construction of access roads or temporary living quarters.

Employment requirements

- Forestry managers usually require a bachelor's degree in forestry science or forest engineering.
- Mining and quarrying managers usually require a bachelor's degree in mining engineering or earth sciences.
- Oil and gas managers usually require a bachelor's degree in geology, earth sciences or petroleum engineering.
- Several years of experience in a supervisory occupation in the particular industry are usually required and may substitute for formal education requirements.

Additional information

- Progression to senior management positions in the respective industries is possible with experience.

Classified elsewhere

- Directors of research in primary industry (in 0212 *Architecture and Science Managers*)
- *Farmers and Farm Managers* (8251)
- *Fishing Masters and Officers* (8261)
- *Senior Managers – Goods Production, Utilities, Transportation and Construction* (0016)
- *Supervisors, Logging and Forestry* (8211)
- *Supervisors, Mining and Quarrying* (8221)
- *Supervisors, Oil and Gas Drilling and Service* (8222)

0911 Manufacturing Managers

Manufacturing managers plan, organize, direct, control and evaluate the operations of a manufacturing establishment or of a production department within a manufacturing establishment, under the direction of a general manager or other senior manager. They are employed by manufacturing companies.

Examples of titles classified in this unit group

automobile production manager
clothing factory manager
dairy plant manager
distillery manager
factory superintendent
foundry manager
manufacturing manager
operations manager, manufacturing
plant manager, manufacturing
printing plant manager
production manager, manufacturing
textile mill manager
tire plant manager

Main duties

Manufacturing managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a manufacturing establishment or the operations or production department of a manufacturing establishment
- Develop and implement plans to efficiently use materials, labour and equipment to meet production targets
- Plan and manage the establishment of departmental budget
- Develop production schedules and maintain an inventory of raw materials and finished products
- Plan and implement changes to machinery and equipment, production systems and methods of work
- Direct quality control inspection system and develop production reporting procedures
- Develop equipment maintenance schedules and recommend the replacement of machines
- Train or oversee training of employees in the use of new equipment or production techniques.

Employment requirements

- Completion of a college or university program in engineering or business administration is usually required.
- Five to ten years of supervisory experience in manufacturing are required.

Additional information

- Progression to senior management positions is possible with experience.

Classified elsewhere

- *Facility Operation and Maintenance Managers* (0721)
- *Senior Managers – Goods Production, Utilities, Transportation and Construction* (0016)
- *Transportation Managers* (0713)
- *Utilities Managers* (0912)

0912 Utilities Managers

This unit group includes managers who plan, organize, direct, control and evaluate the operations of utility companies or services or of heating oil distribution companies. The services provided include the distribution of water, electricity, natural gas and heating oil to residential, commercial and industrial consumers, waste disposal and waste recycling. Utilities managers are employed in public and private sector utilities and in heating oil distribution companies.

Examples of titles classified in this unit group

director of waste management
director of water pollution control
director, distribution systems – utilities
director, electrical power transmission operations
director, water supply
electric power plant manager
liquid waste facility manager
manager, distribution, refined petroleum products
manager, electric generating plant
manager, gas supply operations
manager, sewage treatment plant
water filtration plant manager

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Water supply managers manage water filtration, purification processes and pumping operations, schedule and oversee the maintenance of plant equipment and prepare reports on water supply and water quality.
- Electrical power distribution managers manage the operations of electrical power distribution systems including generating stations, transmission stations and distribution networks. They may also plan and direct the distribution activities of a municipal electrical power establishment.
- Natural gas supply managers manage the delivery of gas to consumers, monitor supply inventories and control the recording of injections and withdrawals.
- Petroleum product distribution managers plan and direct the distribution of heating oil products to retail distributors and regional storage sites.
- Water pollution control managers manage the operations of a sewage treatment plant, schedule and direct maintenance of plant equipment, and prepare reports on water quality.
- Waste systems managers manage solid or liquid waste collection and disposal systems, train drivers in how to handle waste and ensure safe operation of disposal facilities.

Employment requirements

- A bachelor's degree or college diploma in an appropriate discipline is required. For example, electrical engineering is required for managers of transmission lines, and water resource technology for water supply managers.
- Several years of experience as a supervisor in a related utilities operations department are required.
- Professional engineer certification is usually required for managers of utility operations involved in the transmission and distribution of electrical power, and natural gas and heating oil.

Additional information

- Progression to senior management positions in the utility industry is possible with experience.

Classified elsewhere

- *Facility Operators and Maintenance Managers* (0721)
- *Senior Manager – Goods Production, Utilities, Transportation and Construction* (0016)

BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS

Major Group 11
PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

111 Auditors, Accountants and Investment Professionals

1111 Financial Auditors and Accountants
1112 Financial and Investment Analysts
1113 Securities Agents, Investment Dealers and Brokers
1114 Other Financial Officers

112 Human Resources and Business Service Professionals

1121 Specialists in Human Resources
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Major Group 12
SKILLED ADMINISTRATIVE AND BUSINESS OCCUPATIONS

121 Clerical Supervisors

1211 Supervisors, General Office and Administrative Support Clerks
1212 Supervisors, Finance and Insurance Clerks
1213 Supervisors, Library, Correspondence and Related Information Clerks
1214 Supervisors, Mail and Message Distribution Occupations
1215 Supervisors, Recording, Distributing and Scheduling Occupations

122 Administrative and Regulatory Occupations

1221 Administrative Officers
1222 Executive Assistants
1223 Personnel and Recruitment Officers
1224 Property Administrators
1225 Purchasing Agents and Officers
1226 Conference and Event Planners
1227 Court Officers and Justices of the Peace
1228 Immigration, Employment Insurance and Revenue Officers

123 Finance and Insurance Administrative Occupations

1231 Bookkeepers
1232 Loan Officers
1233 Insurance Adjusters and Claims Examiners
1234 Insurance Underwriters
1235 Assessors, Valuators and Appraisers
1236 Customs, Ship and Other Brokers

124 Secretaries, Recorders and Transcriptionists

1241 Secretaries (Except Legal and Medical)
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Major Group 14
CLERICAL OCCUPATIONS

141 Clerical Occupations, General Office Skills

1411 General Office Clerks
1413 Records Management and Filing Clerks
1414 Receptionists and Switchboard Operators

142 Office Equipment Operators

1422 Data Entry Clerks
1423 Desktop Publishing Operators and Related Occupations
1424 Telephone Operators

143 Finance and Insurance Clerks

1431 Accounting and Related Clerks
1432 Payroll Clerks
1433 Customer Service Representatives – Financial Services
1434 Banking, Insurance and Other Financial Clerks
1435 Collectors

144 Administrative Support Clerks

1441 Administrative Clerks
1442 Personnel Clerks
1443 Court Clerks

145 Library, Correspondence and Related Information Clerks

1451 Library Clerks
1452 Correspondence, Publication and Related Clerks
1453 Customer Service, Information and Related Clerks
1454 Survey Interviewers and Statistical Clerks

146 Mail and Message Distribution Occupations

1461 Mail, Postal and Related Clerks
1462 Letter Carriers
1463 Couriers, Messengers and Door-to-Door Distributors

147 Recording, Scheduling and Distributing Occupations

1471 Shippers and Receivers
1472 Storekeepers and Parts Clerks
1473 Production Clerks
1474 Purchasing and Inventory Clerks
1475 Dispatchers and Radio Operators
1476 Transportation Route and Crew Schedulers

1111 Financial Auditors and Accountants

Financial auditors examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures. Accountants plan, organize and administer accounting systems for individuals and establishments. Articling students in accounting firms are included in this unit group. Financial auditors and accountants are employed by auditing and accounting firms throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

accountant
certified general accountant (CGA)
certified management accountant (CMA)
chartered accountant (CA)
chief accountant
corporate controller – accounting
financial auditor
income tax expert
industrial accountant
internal auditor

Main duties

Financial auditors perform some or all of the following duties:

- Examine and analyze journal and ledger entries, bank statements, inventories, expenditures, tax returns and other accounting and financial records, documents and systems of an individual, department, company or other establishment to ensure financial recording accuracy and compliance with established accounting standards, procedures and internal controls
- Prepare detailed reports on audit findings and make recommendations to improve individual or establishment's accounting and management practices
- Conduct field audits of businesses to ensure compliance with provisions of the *Income Tax Act*, *Canadian Business Corporations Act* or other statutory requirements
- May supervise other auditors or professionals in charge of accounting within client's establishment.

Accountants perform some or all of the following duties:

- Plan, set up and administer accounting systems and prepare financial information for an individual, department, company or other establishment
- Examine accounting records and prepare financial statements and reports
- Develop and maintain cost finding, reporting and internal control procedures
- Examine financial accounts and records and prepare income tax returns from accounting records
- Analyze financial statements and reports and provide financial, business and tax advice
- May act as a trustee in bankruptcy proceedings
- May supervise and train articling students, other accountants or administrative technicians.

Employment requirements

- Chartered accountants require a university degree
  and
  Completion of a professional training program approved by a provincial institute of chartered accountants and, depending on the province, either two years or 30 months of on-the-job training
  and
  Membership in a provincial Institute of Chartered Accountants upon successful completion of the Uniform Final Examination (UFE).
- Certified general accountants and certified management accountants require a university degree
  and
  Completion of a training program approved by the Society of Certified General Accountants or Society of Management Accountants and several years of on-the-job training
  and
  Certification by the Certified General Accountants Association or the Society of Management Accountants.

- Auditors require education, training and recognition as indicated for chartered accountants, certified general accountants or certified management accountants
  and
  Some experience as an accountant.
- Auditors may require recognition by the Institute of Internal Auditors.
- To act as a trustee in bankruptcy proceedings, auditors and accountants must hold a licence as a trustee in bankruptcy.
- Licensing by the provincial or territorial governing body is usually required for accountants and auditors practising public accounting.

Additional information

- There is limited mobility among the three professional accounting designations (CA, CGA and CMA).
- Progression to auditing or accounting management positions is possible with experience.

Classified elsewhere

- *Bookkeepers* (1231)
- *Financial Managers* (0111)
- Program or other non-financial auditors (in 416 *Policy and Program Officers, Researchers and Consultants*)

1112 Financial and Investment Analysts

Financial and investment analysts collect and analyze financial information such as economic forecasts, trading volumes and the movement of capital, financial backgrounds of companies, historical performances and future trends of stocks, bonds and other investment instruments to provide financial and investment or financing advice for their company or their company's clients. Their studies and evaluations cover areas such as takeover bids, private placements, mergers or acquisitions. Financial analysts are employed by a wide range of establishments throughout the private and public sector, such as banks, brokerage houses, insurance companies, investment companies, manufacturing firms, trust companies, utility companies and underwriting firms. Investment analysts are employed primarily by brokerage houses and trust companies.

Examples of titles classified in this unit group

chartered financial analyst
financial analyst
investment analyst
money market analyst
portfolio manager
research associate, financial services

Main duties

Financial analysts perform some or all of the following duties:

- Evaluate financial risk, prepare financial forecasts, financing scenarios and other documents concerning capital management, and write reports and recommendations
- Plan short- and long-term cash flows and assess financial performance
- Analyze investment projects
- Advise on and participate in the financial aspects of contracts and calls for tender
- Follow up on financing projects with financial backers
- Develop, implement and use tools for managing and analyzing financial portfolio
- Prepare a regular risk profile for debt portfolios
- Assist in preparing operating and investment budgets.

Investment analysts perform some or all of the following duties:

- Collect financial and investment information about companies, stocks, bonds and other investments using daily stock and bond reports, economic forecasts, trading volumes, financial periodicals, securities manuals, company financial statements and other financial reports and publications
- Examine and analyze financial and investment information collected, including profiles of companies, stock and bond prices, yields and future trends and other investment information
- Provide investment advice and recommendations to clients, senior company officials, pension fund managers, securities agents and associates
- Prepare company, industry and economic outlooks, analytical reports, briefing notes and correspondence.

Employment requirements

- A bachelor's degree in commerce, business administration or economics
  and
  On-the-job training and industry courses and programs are usually required.
- A master's degree such as business administration (M.B.A.) (concentration in finance) or in finance may be required.
- The Chartered Financial Analyst (CFA) designation, available through a program conducted by the Institute of Chartered Financial Analysts in the United States, may be required by some employers.

Additional information

- Progression to management positions, such as securities manager, is possible with experience.

Classified elsewhere

- Economists (in 4162 *Economists and Economic Policy Researchers and Analysts*)
- Financial planners (in 1114 *Other Financial Officers*)
- *Securities Agents, Investment Dealers and Brokers* (1113)

1113 Securities Agents, Investment Dealers and Brokers

Securities agents and investment dealers buy and sell stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers, banks, trust companies, insurance firms and other establishments. Brokers buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers. They are employed by investment companies, stock brokerage firms, stock and commodity exchanges and other establishments in the securities industry.

Examples of titles classified in this unit group

agent, securities
bond dealer
broker
commodity broker
discount broker
floor trader – commodity exchange
foreign exchange trader
investment dealer
mutual fund broker
mutual fund sales representative
registered investment representative
securities sales agent
securities trader
stockbroker
supervisor, registered representatives

Main duties

Securities agents and investment dealers perform some or all of the following duties:

- Develop long-term relationships with their clients by preparing investment strategies to help them achieve their financial goals, offering advice and information on various investments to guide them in managing their portfolios
- Review financial periodicals, stock and bond reports, business publications and other material, and develop a network within the financial industry to gather relevant information and identify potential investments for clients
- Carry out investment orders by buying and selling stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers or companies such as banks, trust companies and insurance firms
- Monitor clients' investment portfolios and ensure that investment transactions are carried out according to industry regulations.

Brokers perform some or all of the following duties:

- Buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers
- Develop trading strategies by reviewing investment information and monitoring market conditions from the exchange floor and through contact with trading departments of other investment firms, pension fund managers and financial analysts
- Make bids and offers to buy and sell securities and complete details of sales on exchange trade tickets
- Prepare reviews of portfolios' positions.

Employment requirements

- A bachelor's or master's degree in economics, business or other discipline is usually required.
- Securities sales representatives and brokers require completion of industry investment and sales training programs and completion of the Canadian Securities course and the Registered Representative Manual Exam offered by the Canadian Securities Institute.
- Specialized courses are also available for securities sales representatives and brokers who want to trade in specific investment products such as securities options and futures contracts.
- Licensure by the provincial securities commission in the province of employment is required for securities agents, investment dealers and brokers.

Additional information

- Progression to related management positions is possible with experience.

Classified elsewhere

- *Financial and Investment Analysts* (1112)
- Financial brokerage managers (in 0121 *Insurance, Real Estate and Financial Brokerage Managers*)
- *Other Financial Officers* (1114)

1114 Other Financial Officers

This unit group includes professional occupations in finance not elsewhere classified such as financial planners, financial examiners and inspectors, financial investigators, underwriters, mortgage brokers and trust officers. They are employed by banks, trust companies, investment firms, governments or they may be self-employed.

Examples of titles classified in this unit group

credit unions examiner
estate and trust administrator
financial investigator
financial planner
inspector, financial institutions
mortgage broker
trust officer
underwriter

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Financial planners develop personal financial plans for clients covering cash management, finances, insurance coverage, investments, retirement and estate planning, taxes and legal matters; analyze clients' financial records, set goals and develop a financial strategy; advise clients on implementing the financial plan to help them achieve their goals; may also arrange for the sale of financial products and investments depending on the licence held, and monitor the portfolio to ensure its quality and profitability; and help to expand business and attract new clients.
- Financial examiners and inspectors review and examine banks, trust companies, credit unions, caisses populaires, credit companies, real estate companies, insurance companies, pension funds, securities brokers and other financial services and institutions to ensure compliance with governing legislation and regulations.
- Financial investigators investigate possible unethical conduct or breeches of securities or commodity futures laws by persons or companies that trade in securities and commodity futures or that provide related financial services.
- Underwriters underwrite new issues of stocks and bonds, negotiate with corporations and governments to determine the type and terms of new securities issued and prepare offering prospectus.
- Trust officers administer estate, personal, charitable, corporate and other types of trusts, direct trust account investments, receive and record investment income and disburse trust funds.
- Mortgage brokers meet with clients to obtain information about income, liabilities and assets, and type, price and condition of property to be mortgaged, negotiate mortgage loans with lenders or lending institutions on behalf of clients.

Employment requirements

- A bachelor's degree in business administration, commerce, economics or a related field is usually required.
- Various training programs and courses are offered by financial institutes and organizations, such as the Canadian Securities Institute, Institute of Canadian Bankers, Institute of Chartered Financial Analysts, Investment Funds Institute, Canadian Institute of Financial Planning, and Trust Companies Institute of Canada, and may be required by employers.
- The designation Personal Financial Planner, awarded by the Financial Planners Standards Council of Canada, may be required.
- Financial planners who sell regulated financial products and investments, such as annuities, RRSPs and life insurance, are required to be licensed by the appropriate governing body.
- Financial examiners and inspectors may require a recognized accounting designation.
- Mortgage brokers require a real estate licence in Quebec and a mortgage broker licence in Newfoundland, Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

1114 Other Financial Officers

Additional information

- Progression to financial management positions is possible with experience.
- While these kinds of positions require a high degree of training and qualifications, persons who occupy them must continually update their skills and pursue professional development.

Classified elsewhere

- Economic development officers (in 4163 *Business Development Officers and Marketing Researchers and Consultants*)
- Economists (in 4162 *Economists and Economic Policy Researchers and Analysts*)
- *Financial and Investment Analysts* (1112)
- *Securities Agents, Investment Dealers and Brokers* (1113)

1121 Specialists in Human Resources

Specialists in human resources develop, implement and evaluate human resources and labour relations policies, programs and procedures and advise managers and employers on personnel matters. Specialists in human resources are employed throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

business agent, labour organization
classification officer
classification specialist
compensation research analyst
conciliator
consultant, human resources
employee relations officer
employment equity officer
human resources research officer
job analyst
labour relations officer
mediator
union representative
wage analyst

Main duties

Specialists in human resources perform some or all of the following duties:

- Plan, develop, implement and evaluate personnel and labour relations strategies including policies, programs and procedures to address an organisation's human resource requirements
- Advice mangers and employees on the interpretation of personnel policies, compensation and benefit programs and collective agreements
- Negotiate collective agreements on behalf of employers or workers, mediate labour disputes and grievances and provide advice on employee and labour relations
- Research and prepare occupational classifications, job descriptions, salary scales and competency appraisal measures and systems
- Plan and administer staffing, total compensation, training and career development, employee assistance, employment equity and affirmative actions programs
- Manage programs and maintain human resources information and related records systems
- Hire and oversee training of staff
- Co-ordinate employee performance and appraisal programs
- Research employee benefit and health and safety practices and recommend changes or modifications to existing policies.

Employment requirements

- A university degree or college diploma in a field related to personnel management, such as business administration, industrial relations, commerce or psychology

  or

  Completion of a professional development program in personnel administration is required.
- Some experience in a clerical or administrative position related to personnel administration may be required.

Additional information

- Progression to management positions is possible with experience.

Classified elsewhere

- *Human Resources Managers* (0112)
- *Personnel and Recruitment Officers* (1223)
- *Personnel Clerks* (1442)
- *Professional Occupations in Business Services to Management* (1122)
- Training officers and instructors (in 4131 *College and Other Vocational Instructors*)

1122 Professional Occupations in Business Services to Management

This unit group includes those who provide services to management such as analyzing the operations, managerial methods or functions of an organization in order to propose, plan and implement improvements, or analyzing advertising needs and developing appropriate advertising plans. They are employed by management consulting firms, advertising agencies and throughout the public and private sectors or are self-employed.

Examples of titles classified in this unit group

advertising account executive
business management consultant
business methods analyst
consultant, organizational analysis
ISO consultant
management analyst
organizational analyst
promotion specialist
researcher, organization and methods
senior consultant, operations management

Main duties

Management consultants perform some or all of the following duties:

- Analyze and provide advice on the managerial methods and organization of a public or private sector establishment
- Conduct research to determine efficiency and effectiveness of managerial policies and programs
- Conduct assessments and propose improvements to methods, systems and procedures in areas such as operations, human resources, records management and communications
- Conduct quality audits and develop quality management and quality assurance standards for ISO (International Organization for Standardization) registration
- Plan the re-organization of the operations of an establishment
- May supervise contracted researchers or clerical staff.

Advertising and promotion consultants perform some or all of the following duties:

- Assess characteristics of products or services to be promoted and advise on the advertising needs of an establishment
- Advise clients on advertising or sales promotion strategies
- Develop and implement advertising campaigns appropriate for print or electronic media.

Employment requirements

- A bachelor's degree or college diploma in business administration or commerce is usually required.
- A graduate degree in business administration may be required.
- Some establishments may require management consultants to be certified by a provincial management consulting association.
- Certification as a quality auditor may be required for some occupations in this unit group.

Additional information

- Progression to senior and managerial positions is possible with experience.

Classified elsewhere

- *Business Development Officers and Marketing Researchers and Consultant* (4163)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Financial and Investment Analysts* (1112)
- *Financial Auditors and Accountants* (1111)
- *Industrial and Manufacturing Engineers* (2141)
- *Other Financial Officers* (1114)

1211 Supervisors, General Office and Administrative Support Clerks

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following minor groups: *Clerical Occupations, General Office Skills* (141), *Office Equipment Operators* (142) and *Administrative Support Clerks* (144). They are employed throughout the public and private sectors.

Examples of titles classified in this unit group

clerical supervisor
data entry supervisor
filing clerks supervisor
hospital admitting clerks supervisor
medical records unit supervisor
personnel clerks supervisor
records office supervisor
registry supervisor
supervisor, switchboard operators

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: word processing; record keeping and filing; operating telephones and switchboards; data entry; desktop publishing; and other activities involving general office and administrative skills
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of office equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Completion of college courses related to area supervised is usually required.
- Experience in the occupation supervised is usually required.

Classified elsewhere

- Office managers (in 1221 *Administrative Officers*)
- *Supervisors, Finance and Insurance Clerks* (1212)
- *Supervisors, Library, Correspondence and Related Information Clerks* (1213)
- *Supervisors, Mail and Message Distribution Occupations* (1214)
- *Supervisors, Recording, Distributing and Scheduling Occupations* (1215)

1212 Supervisors, Finance and Insurance Clerks

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Accounting and Related Clerks* (1431), *Payroll Clerks* (1432), *Customer Service Representatives – Financial Services* (1433), *Banking, Insurance and Other Financial Clerks* (1434) and *Collectors* (1435). They are employed by banks and other financial institutions, insurance companies, and by other establishments throughout the private and public sectors.

Examples of titles classified in this unit group

accounts payable supervisor
accounts receivable supervisor
bank clerks supervisor
billing supervisor
bookkeeping supervisor
collection supervisor
credit supervisor
payroll supervisor
savings supervisor
supervisor of accounting
supervisor, claims adjusters
supervisor, customer service representatives

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Implement efficient working processes and co-ordinate, assign and review the work of clerks engaged in the following duties: administering accounts payable and receivable; processing, verifying and recording financial documents and forms; administering payrolls; serving customers in banks, trust companies and other financial institutions; processing, verifying and recording insurance claims and forms; and collecting user fees and payments on overdue accounts
- Examine and verify accuracy of work and authorize routine payments, credits, deposits and withdrawals
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Identify training needs and train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of a college program or courses in bookkeeping, accounting or a related subject is required.
- Experience in the clerical occupation supervised is required.

Classified elsewhere

- *Financial Managers* (0111)
- *Other Financial Officers* (1114)

1213 Supervisors, Library, Correspondence and Related Information Clerks

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Library Clerks* (1451), *Correspondence, Publication and Related Clerks* (1452), *Customer Service, Information and Related Clerks* (1453) and *Survey Interviewers and Statistical Clerks* (1454). They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

advertising clerks supervisor
correspondence clerks supervisor
customer service supervisor (except financial services)
information clerks supervisor
library clerks supervisor
publication clerks supervisor
statistical clerks supervisor
supervisor, call centre agents
supervisor, survey interviewers

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: conducting surveys and interviews; collecting and compiling statistics; providing information and customer service; reshelving books and performing other tasks in libraries; writing correspondence including e-mails and preparing material for translation and publication
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems, monitor services provided by clerks and agents, and prepare and submit progress and other reports
- Train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Completion of college courses related to area supervised may be required.
- Experience in the clerical occupation supervised is usually required.

Classified elsewhere

- *Librarians* (5111)
- *Library and Archive Technicians and Assistants* (5211)
- *Supervisors, Mail and Message Distribution Occupations* (1214)

1214 Supervisors, Mail and Message Distribution Occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Mail, Postal and Related Clerks* (1461), *Letter Carriers* (1462) and *Couriers, Messengers and Door-to-Door Distributors* (1463). They are employed by Canada Post Corporation, courier companies, governments and large corporations.

Examples of titles classified in this unit group

courier service supervisor
letter carriers supervisor
mail and postal clerks supervisor
mail room supervisor
messenger service supervisor
postal station supervisor
postmaster/mistress

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of postal clerks, letter carriers and couriers engaged in the collecting, sorting and delivering of mail, parcels and other material
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Several years of experience in the occupation supervised are usually required.

Classified elsewhere

- *Postal and Courier Services Managers* (0132)
- Shipping and receiving supervisors (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)

1215 Supervisors, Recording, Distributing and Scheduling Occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Shippers and Receivers* (1471), *Storekeepers and Parts Clerks* (1472), *Production Clerks* (1473), *Purchasing and Inventory Clerks* (1474), *Dispatchers and Radio Operators* (1475) and *Transportation Route and Crew Schedulers* (1476). They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

dispatch logistician
flight crew scheduling supervisor
freight forwarding logistician
head dispatcher
head shipper
inventory control supervisor
logistics supervisor – transportation
parts service supervisor
production clerks supervisor
ramp services supervisor – airport
stock control supervisor
supervisor, receiving
supply control coordinator

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: shipping, receiving, storing, distributing and maintaining inventories of materials, parts and products; processing purchasing transactions; co-ordinating production work; dispatching crews; scheduling transportation crews and routes; operating airport ramp servicing vehicles; and other related activities
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience in the occupation supervised are usually required.

Classified elsewhere

- *Supervisors, Mail and Message Distribution Occupations* (1214)

1221 Administrative Officers

Administrative officers oversee and implement administrative procedures, establish work priorities and co-ordinate the acquisition of administrative services such as office space, supplies and security services. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

access to information and privacy officer
administrative officer
administrative services co-ordinator
co-ordinator, office services
forms management officer
liaison officer
office administrator
office manager
planning officer
records analyst – access to information
requirements officer – military
surplus assets officer
university admissions officer

Main duties

Administrative officers perform some or all of the following duties:

- Oversee and co-ordinate office administrative procedures and review, evaluate and implement new procedures
- Establish work priorities, delegate work to office support staff, and ensure deadlines are met and procedures are followed
- Carry out administrative activities associated with admissions to post-secondary educational institutions
- Administer policies and procedures related to the release of records in processing requests under government access to information and privacy legislation
- Co-ordinate and plan for office services, such as accommodation, relocations, equipment, supplies, forms, disposal of assets, parking, maintenance and security services
- Assist in preparation of operating budget and maintain inventory and budgetary controls
- Assemble data and prepare periodic and special reports, manuals and correspondence.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business or public administration may be required.
- Experience in a senior clerical or executive secretarial position related to office administration is usually required.

Additional information

- Progression to administrative service management positions is possible with experience.

Classified elsewhere

- *Administrative Clerks* (1441)
- Administrative Services Managers (in 0114 *Other Administrative Services Managers*)
- *Conference and Event Planners* (1226)
- *Executive Assistants* (1222)
- *Property Administrators* (1224)

1222 Executive Assistants

Executive assistants co-ordinate administrative procedures, public relations activities and research and analysis functions for members of legislative assemblies, ministers, deputy ministers, corporate officials and executives, committees and boards of directors. They are employed by governments, corporations and associations.

Examples of titles classified in this unit group

committee clerk
corporate secretary
executive assistant
legislative assistant

Main duties

Executive assistants perform some or all of the following duties:

- Establish and co-ordinate administrative policies and procedures for officials, committees and boards of directors
- Analyze incoming and outgoing memoranda, submissions and reports and prepare and co-ordinate the preparation and submission of summary briefs and reports to the executive, committees and boards of directors
- Prepare agendas and make arrangements for committee, board and other meetings
- Conduct research, compile data, and prepare papers for consideration and presentation by the executive, committees and boards of directors
- Meet with individuals, special interest groups and others on behalf of the executive, committees and boards of directors to discuss issues and assess and recommend various courses of action
- Liaise with departmental and corporate officials and with other organizations and associations on behalf of the executive, committees and boards of directors.

Employment requirements

- Completion of secondary school is required.
- A bachelor's degree in public administration, political science or a related discipline is usually required.
- Experience in a related administrative occupation is usually required.

Classified elsewhere

- *Administrative Officers* (1221)
- *Conference and Event Planners* (1226)
- Executive secretaries (in 1241 *Secretaries (Except Legal and Medical)*)

1223 Personnel and Recruitment Officers

Personnel and recruitment officers identify and advertise job vacancies, recruit candidates, and assist in the selection and reassignment of employees. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

human resources officer
personnel officer
personnel selection officer – military
placement officer
recruiter
recruitment specialist
staffing analyst
staffing co-ordinator

Main duties

Personnel and recruitment officers perform some or all of the following duties:

- Identify current and prospective staffing requirements, prepare and post notices and advertisements, and collect and screen applications
- Advise job applicants on Employment requirements and on terms and conditions of employment
- Review candidate inventories and contact potential applicants to arrange interviews and arrange transfers, redeployment and placement of personnel
- Recruit graduates of colleges, universities and other educational institutions
- Co-ordinate and participate in selection and examination boards to evaluate candidates
- Notify applicants of results of selection process and prepare job offers
- Advise managers and employees on staffing policies and procedures
- Organize and administer staff consultation and grievance procedures
- Negotiate settlements of appeals and disputes and co-ordinate termination of employment process
- Determine eligibility to entitlements, arrange staff training and provide information or services such as employee assistance, counselling and recognition programs
- May supervise personnel clerks performing filing and record-keeping duties.

Employment requirements

- A university degree or college diploma in a field related to personnel management such as business administration, industrial relations, commerce or psychology
  or
  Completion of a professional development program in personnel administration is usually required.
- Certification as a Certified Human Resources Professional (C.H.R.P.) may be required.
- Some experience in a clerical or administrative position related to personnel administration may be required.

Additional information

- Progression to specialist and management positions is possible with experience.

Classified elsewhere

- *Human Resources Managers* (0112)
- *Personnel Clerks* (1442)
- *Specialists in Human Resources* (1121)
- Training officers and instructors (in 4131 *College and Other Vocational Instructors*)

1224 Property Administrators

Property administrators perform administrative duties and co-ordinate activities related to the management and rental of investment property and real estate on behalf of property owners. They are employed by property and real estate management companies, property development companies and by government.

Examples of titles classified in this unit group

accommodation officer
apartment rental agent
housing project manager
leasing co-ordinator, property
property administrator
property rentals manager

Main duties

Property administrators perform some or all of the following duties:

- Negotiate or approve rental or lease of various properties in a portfolio on behalf of property owners and ensure that terms of lease agreement are met
- Prepare and administer contracts for provision of property services, such as cleaning and maintenance, security services and alarm systems
- Co-ordinate the implementation of repairs, maintenance and renovations carried out on buildings and monitor progress and cost of work for property owners
- Compile and maintain records on operating expenses and income, prepare reports and review rents to ensure they are at market value
- Ensure that trouble calls received from clients or tenants are acted upon
- Administer damage deposits
- May hire and supervise rental agents, property clerks, building superintendents or other support staff performing operational, clerical or maintenance duties.

Employment requirements

- Completion of secondary school is required.
- Completion of training courses or vocational program in property management or real estate may be required.
- Several years of administrative experience as a property clerk, contract clerk, or administrative officer are usually required.

Classified elsewhere

- Building superintendents (in 6663 *Janitors, Caretakers and Building Superintendents*)
- Property clerks (in 1441 *Administrative Clerks*)
- *Real Estate Agents and Salespersons* (6232)

1225 Purchasing Agents and Officers

Purchasing agents and officers purchase general and specialized equipment, materials and business services for use or for further processing by their establishment. They are employed throughout the public and private sectors.

Examples of titles classified in this unit group

contract management officer
contracts officer
material management officer
procurement officer
purchaser, furniture and furnishings
purchasing agent
purchasing officer
supply officer, government

Main duties

Purchasing agents and officers perform some or all of the following duties:

- Purchase general and specialized equipment, materials or business services for use or for further processing by their establishment
- Assess requirements of an establishment and develop specifications for equipment, materials and supplies to be purchased
- Invite tenders, consult with suppliers and review quotations
- Determine or negotiate contract terms and conditions, award supplier contracts or recommend contract awards
- Establish delivery schedules, monitor progress and contact clients and suppliers to resolve problems
- May hire, train or supervise purchasing clerks.

Purchasing agents and officers may specialize in the purchase of particular materials or business services such as furniture or office equipment.

Employment requirements

- A bachelor's degree or college diploma in business administration, commerce or economics is usually required.
- Purchasing agents and officers purchasing specialized materials or business services may require a related university degree or college diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasers of industrial products.
- A certificate in purchasing from the Purchasing Management Association of Canada may be required.
- Previous experience as a purchasing clerk or as an administrative clerk may be required.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- *Purchasing and Inventory Clerks* (1474)
- *Purchasing Managers* (0113)
- *Retail and Wholesale Buyers* (6233)

1226 Conference and Event Planners

Conference and event planners plan, organize and co-ordinate conferences, conventions, meetings, seminars, exhibitions, trade shows, festivals and other events. They are employed by tourism associations, trade and professional associations, convention and conference centres, governments and by conference and event planning companies.

Examples of titles classified in this unit group

conference and meeting planner
conference planner
conference services officer
convention coordinator
event planner
festival organizer
meeting planner
special events organizer
trade show planner

Main duties

Conference and event planners perform some or all of the following duties:

- Meet with trade and professional associations and other groups to promote and discuss conference, convention and trade show services
- Meet with sponsors and organizing committees to plan scope and format of events, to establish and monitor budgets and to review administrative procedures and progress of events
- Co-ordinate services for events, such as accommodation and transportation for participants, conference and other facilities, catering, signage, displays, translation, special needs requirements, audio-visual equipment, printing and security
- Organize registration of participants, prepare programs and promotional material, and publicize events
- Plan entertainment and social gatherings for participants
- Hire, train and supervise support staff required for events
- Ensure compliance with required by-laws
- Negotiate contracts for services, approve suppliers' invoices, maintain financial records, review final billing submitted to clients for events and prepare reports.

Employment requirements

- A university degree or college diploma in business, tourism or hospitality administration is usually required.
- Several years of experience in hospitality or tourism administration or in public relations are usually required and may substitute for formal education requirements.
- Certification relating to special events, meetings or conference management may be required.

Classified elsewhere

- *Administrative Officers* (1221)
- *Executive Assistants* (1222)
- *Professional Occupations in Public Relations and Communications* (5124)
- *Sales Representatives – Wholesale Trade (Non-Technical)* (6411)

1227 Court Officers and Justices of the Peace

Court officers co-ordinate the administrative and procedural functions of federal, provincial and territorial courts, such as scheduling trials and overseeing the maintenance of court records. Justices of the peace administer oaths, issue subpoenas, summonses and warrants and perform other court-related duties such as conducting bail hearings. They are employed by federal and provincial courts.

Examples of titles classified in this unit group

administrator of the court
clerk of the court
commissioner of affidavits
commissioner of marriages
co-ordinator of court services
court administrator
court clerk supervisor
court officer
court registrar
deputy registrar
judicial administrator
judicial court administrator
judicial officer
justice of the peace
manager, court services
registrar of bankruptcy
Supreme Court registrar
trial co-ordinator

Main duties

Court officers perform some or all of the following duties:

- Co-ordinate administrative services and establish work priorities for court staff
- Schedule court trials and arrange pre-trial conferences and hearings
- Call courts of law to order, read charges and take pleas from defendants
- Record court commencement, trial proceedings and judgements
- Collect and record sheriff fees, transcription fees and other court administrative and services fees
- Oversee the maintenance of judicial court records
- Assist in preparing annual budgets
- May be justices of the peace.

Justices of the peace perform some or all of the following duties:

- Issue subpoenas, summonses and warrants, including search warrants
- Receive affidavits, declarations and affirmations
- Administer oaths
- Conduct bail hearings
- Release defendants on judges' orders and explain rights and obligations
- Hear evidence at trials on summary conviction offences and may preside over trials of criminal offences at the discretion of the chief judge of the jurisdiction or as provided for in federal, provincial or territorial statutes
- Perform civil marriages.

Employment requirements

- Court officers usually require a university degree in law or business or public administration or a college diploma in public administration or legal studies.
- Completion of a justice registrar, justice of the peace or other court training program is required for court officers and justices of the peace.
- Several years of experience as a court clerk or in another court service occupation are usually required.
- Justices of the peace in the provinces are appointed by the lieutenant governor in council and, in the territories, by federally appointed territorial commissioners.

Additional information

- Progression to senior positions such as senior court administrator is possible through experience.

- The duties and responsibilities of justices of the peace vary significantly depending on the level of their authority. They may be employed part-time on a fee-for-service basis in small communities. Their duties range from receiving affidavits and similar documents, to presiding in courts and hearing and determining prosecutions under provincial/territorial and federal laws.

Classified elsewhere

- *Administrative Officers* (1221)
- *Court Clerks* (1443)
- *Paralegal and Related Occupations* (4211)
- *Sheriffs and Bailiffs* (6461)

1228 Immigration, Employment Insurance and Revenue Officers

This unit group includes government officers who administer and enforce laws and regulations related to immigration, employment insurance, customs and tax revenue. They are employed by government agencies.

Examples of titles classified in this unit group

customs inspector
customs officer
immigration agent
immigration examining officer
revenue officer
tax collection officer
tax enforcement officer
employment insurance agent
employment insurance officer

Main duties

Immigration officers perform some or all of the following duties:

- Determine admissibility of persons seeking entry into Canada by examining documents and conducting interviews
- Grant landed-immigrant status, admit persons or order detention or deportation
- Locate and apprehend persons presumed to be infringing on immigration laws
- Assist in the removal of deported people by seeking authorization from receiving countries and securing necessary travel documents
- Appear as a witness in cases related to immigration appeals.

Employment insurance officers perform some or all of the following duties:

- Determine the eligibility of persons applying for employment insurance benefits
- Ascertain the facts on such issues as reasons for loss of employment and availability for work
- Monitor the payments of benefits throughout the duration of a claim and investigate claimants when there appears to be fraud or abuse.

Customs officers and inspectors perform some or all of the following duties:

- Question persons at border points to determine the admissibility of goods and assess duty
- Inspect baggage to detect undeclared merchandise, or contraband
- Inform manufacturers and shippers of customs and laws and procedures
- Observe fabrication of articles affected by customs laws and conduct appraisals
- Board carriers arriving from foreign countries to determine nature of cargo to ensure compliance with customs and commerce laws
- Inspect goods imported by mail
- May arrest and detain individuals suspected of having committed a criminal offence under the *Customs Act* or certain other designated Criminal Code offences until police intervention is possible.

Excise tax revenue officers perform some or all of the following duties:

- Audit accounting records to determine income, exemptions, payable taxes, compliance with reporting regulations and existence of fraud
- Examine accounting systems and internal controls of organizations
- Provide advice on reporting and measurement procedures for goods subject to taxation
- Prepare briefs and assist in searching and seizing records, and in preparing charges for court cases.

Employment requirements

- A bachelor's degree or college diploma is usually required.
- Several years of related administrative or regulatory experience may be required.
- Completion of specialized government training program is required.

Additional information

- Progression to managerial positions in these fields is possible with experience.

Classified elsewhere

- *Financial Auditors and Accountants* (1111)
- Managers responsible for immigration or employment insurance (in 0411 *Government Managers – Health and Social Policy Development and Program Administration*)
- Managers responsible for taxation revenue or customs (in 0412 *Government Managers – Economic Analysis, Policy Development and Program Administration*)
- *Other Financial Officers* (1114)
- *Social Policy Researchers, Consultants and Program Officers* (4164)

1231 Bookkeepers

Bookkeepers maintain complete sets of books, keep records of accounts, verify the procedures used for recording financial transactions, and provide personal bookkeeping services. They are employed throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

accounting bookkeeper
bookkeeper

Main duties

Bookkeepers perform some or all of the following duties:

- Keep financial records and establish, maintain and balance various accounts using manual and computerized bookkeeping systems
- Post journal entries and reconcile accounts, prepare trial balance of books, maintain general ledgers and prepare financial statements
- Calculate and prepare cheques for payrolls and for utility, tax and other bills
- Complete and submit tax remittance forms, workers' compensation forms, pension contribution forms and other government documents
- Prepare tax returns and perform other personal bookkeeping services
- Prepare other statistical, financial and accounting reports.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in accounting, bookkeeping or a related field
  or
  Completion of two years (first level) of a recognized professional accounting program (e.g., Chartered Accounting, Certified General Accounting)
  or
  Courses in accounting or bookkeeping combined with several years of experience as a financial or accounting clerk are required.

Additional information

- Progression to professional accounting occupations is possible with additional training.

Classified elsewhere

- *Accounting and Related Clerks* (1431)
- *Banking, Insurance and Other Financial Clerks* (1434)
- *Financial Auditors and Accountants* (1111)
- *Payroll Clerks* (1432)

1232 Loan Officers

Loan officers examine, evaluate and process credit and loan applications. They are employed by banks, trust companies, credit unions and similar financial institutions.

Examples of titles classified in this unit group

credit officer
loan officer
mortgage officer

Main duties

Loan officers perform some or all of the following duties:

- Interview applicants for personal, mortgage, student and business loans
- Research and evaluate loan applicant's financial status, references, credit and ability to repay the loan
- Complete credit and loan documentation
- Submit credit and loan applications to management with recommendations for approval or rejection; or approve or reject applications within authorized limits ensuring that credit standards of the institution are respected
- Promote the sale of credit and loan services
- Review and update credit and loan files
- Prepare statements on delinquent accounts and forward irreconcilable accounts for collector action.

Employment requirements

- Completion of secondary school and extensive general banking experience

  or

  A bachelor's degree or college diploma related to commerce or economics is required.
- Completion of a loan or credit training program, ranging from six to twelve months, is usually required.

Additional information

- Progression to credit and loan management positions is possible with experience.

Classified elsewhere

- Credit and loan managers (in 0122 *Banking, Credit and Other Investment Managers*)

1233 Insurance Adjusters and Claims Examiners

Insurance adjusters investigate insurance claims and determine the amount of loss or damages covered by insurance policies. They are employed in claims departments of insurance companies or as independent adjusters. Insurance claims examiners examine claims investigated by insurance adjusters and authorize payments. They are employed at head offices or branches of insurance companies.

Examples of titles classified in this unit group

adjuster
claims examiner
claims representative
insurance adjuster

Main duties

Insurance adjusters perform some or all of the following duties:

- Investigate circumstances surrounding insurance claims to determine validity of claim
- Inspect automobile, home or other property damage
- Take statements and consult with claimants, accident witnesses, doctors and other relevant individuals and examine records or reports
- Determine amount of loss or damages covered by insurance policies
- Negotiate settlement of claims
- Prepare adjustment reports.

Insurance claims examiners perform some or all of the following duties:

- Review, examine, calculate and authorize insurance claims investigated by insurance adjusters
- Examine adjusters' reports and similar insurance claims or precedents to determine extent of insurance coverage
- Ensure claims are valid and settlements are made according to company practices and procedures
- Consult lawyers, doctors or other relevant individuals to discuss insurance claims
- Approve automobile, fire, life, disability, dental or other insurance claims.

Employment requirements

- Completion of secondary school is required.
- A bachelor's degree, college diploma or some post-secondary education
  or
  Several years of experience as a clerk in the claims department or other general insurance experience are required.
- Several years of on-the-job training and completion of insurance industry courses and training programs are required.
- Independent adjusters require a provincial licence issued by the Superintendent of Insurance in the province or territory of employment.

Additional information

- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance adjusters and claims examiners to professional recognition as an Associate of the Insurance Institute of Canada (A.I.I.C.) and, with additional university courses, as a Fellow of the Insurance Institute of Canada (F.I.I.C.).

Classified elsewhere

- *Supervisors, Finance and Insurance Clerks* (1212)

1234 Insurance Underwriters

Insurance underwriters review and evaluate insurance applications to determine insurance risks, insurance premiums and extent of insurance coverage according to company policies. Insurance underwriters are employed at head and branch offices of insurance companies.

Examples of titles classified in this unit group

insurance underwriter
group underwriter
liability underwriter
property underwriter

Main duties

Insurance underwriters perform some or all of the following duties:

- Review individual and group applications for automobile, fire, health, liability, life, property, marine, aircraft and other insurance
- Evaluate new and renewal applications to determine insurance risks, insurance premiums, extent of insurance coverage and other conditions of the insurance contract using medical reports, rate tables and other documents and reference materials; adjust premiums, coverage or risk itself to make acceptance of new and renewal applications possible
- Approve sale of insurance policies and ensure compliance with government regulations
- Provide recommendations on individual or group insurance plan designs
- Provide underwriting advice and answer inquiries from clients and from insurance agents, consultants and other company personnel
- Prepare underwriting reports and update insurance forms when necessary.

Employment requirements

- Completion of secondary school and some general insurance experience
  or
  A bachelor's degree, college diploma or some post-secondary education is required.
- Several years of on-the-job training and completion of insurance industry underwriting courses and training programs are required.

Additional information

- Progression to management positions, such as underwriter manager, is possible with experience.
- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance underwriters to professional recognition as an Associate of the Insurance Institute of Canada (A.I.I.C.) and, with additional university courses, as a Fellow of the Insurance Institute of Canada (F.I.I.C.).

Classified elsewhere

- *Insurance Agents and Brokers* (6231)
- Insurance managers (in 0121 *Insurance, Real Estate and Financial Brokerage Managers*)

1235 Assessors, Valuators and Appraisers

Assessors, valuators and appraisers determine the value of land, businesses, estate and other real property, for purposes of sale, purchase, taxation or disposal of assets. Appraisers also determine the value of personal and household items. Assessors, valuators and appraiser are employed by government agencies, real estate and other private companies, or they may be self-employed.

Examples of titles classified in this unit group

business valuator
property assessor
property valuator
real estate appraiser

Main duties

Assessors perform some or all of the following duties:

- Assess value of land, building, structures, machinery, equipment and property improvements for purposes of taxation, grants and regional planning and prior to sale or purchase
- Review and analyze data such as past sales, title searches, engineering and alignment maps, coil maps, subdivision plans, water and sewer plans, location cost data and easements
- Explain assessment process to ratepayers.

Assessors may specialize in advising and consulting in a specific field of assessment such as residential, commercial, industrial, institutional or farm lands.

Valuators perform some or all of the following duties:

- Collect and analyze financial records of a business, such as financial statements, budgets, projections and sales data, to assess its competitiveness or to estimate its market value
- Prepare reports for estate planning, matrimonial litigation, insurance and business losses
- Appear as an expert witness before courts, security regulators and other regulatory boards and commissions.

Appraisers perform some or all of the following duties:

- Appraise value of property, building, industrial and commercial machinery and equipment and personal and household items
- Prepare appraisal reports for lending agencies, insurance companies, government departments, courts, attorneys, creditors, buyers or auctioneers.

Appraisers may specialize in a specific type of appraisal such as real estate appraisal.

Employment requirements

- Assessors require a college diploma in municipal assessment
  and
  Accreditation with the municipal assessment association of the province.
- Valuators usually require a bachelor's degree or college diploma in accounting, business or commerce
  and
  Accreditation with the Canadian Institute of Chartered Business Valuators based on successful completion of its business and security valuation program.
- Appraisers require a college diploma or vocational training in the field of appraisal
  or
  Several years of experience in a position related to the field of appraisal.
- Real estate appraisers usually require several years of experience as a real estate agent, right-of-way agent or property administrator and may require Canadian residential appraiser certification.
- Appraisers of residential, commercial or industrial property require accreditation with the Appraisal Institute of Canada.

Additional information

- Progression to management positions in each field is possible with experience.

Classified elsewhere

- *Financial and Investment Analysts* (1112)
- *Financial Auditors and Accountants* (1111)
- *Insurance Adjusters and Claims Examiners* (1233)
- Market analysts (in 4163 *Business Development Officers and Marketing Researchers and Consultants*)

- *Property Administrators* (1224)
- Right-of-way agents (in 1225 *Purchasing Agents and Officers*)

1236 Customs, Ship and Other Brokers

Customs brokers clear goods through customs and to their destination on behalf of importer and exporter clients. Ship brokers buy and sell cargo space on ships and buy and sell ships, yachts and other watercraft on behalf of clients. This unit group also includes other brokers, not elsewhere classified, who negotiate commercial transactions or other services between parties on behalf of clients. They are employed by customs, ship or other brokerage establishments or may be self-employed.

Examples of titles classified in this unit group

cargo broker
chartered ship broker
customs broker
gas broker
licensed customs broker
ship broker

Main duties

Customs brokers perform some or all of the following duties:

- Prepare and process import/export documents and other forms on behalf of clients according to customs regulations, laws and procedures
- Sign import/export documents on behalf of client, using power of attorney
- Arrange for payment of duties, taxes, storage and transportation of imported goods and bonds to cover duty goods
- Quote duty and tax rates on commodities for clients
- Provide advice to clients on export and import restrictions, tariff systems, letters of credit, insurance requirements and other custom related matters
- May represent client before administrative tribunals or in other dealings with government officials.

Ship brokers perform some or all of the following duties:

- Buy and sell cargo space on ships on behalf of individuals, companies and governments
- Consult trade publications and other sources to provide information to clients on available cargo space, destinations, rates and departure locations and times, and arrange ship charters for clients
- Negotiate rates and terms and prepare contracts and other papers
- Buy and sell ships, yachts and other watercraft on behalf of clients
- Inspect vessels, explain features and negotiate price when purchasing or selling for clients
- Arrange for insurance coverage for cargo or for ships
- Arrange for registration and licensing of ships.

Employment requirements

- Completion of secondary school is required.
- Some post-secondary education in commerce or a related field may be required.
- Customs brokers require several years of on-the-job training and completion of a customs brokers training program through the Canadian Institute of Customs Brokers.
- A customs broker licence, issued by the Canada Customs and Revenue Agency, is required for an individual or company to operate a customs brokerage business.
- Ship brokers selling cargo space on ships usually require several years of on-the-job training or related experience such as shipping company scheduling experience. Ship brokers selling watercraft usually require in-depth experience with, and knowledge of, various watercraft.
- Correspondence courses from the Institute of Chartered Ship Brokers are available for ship brokers.

Additional information

- There is no mobility between the different types of brokers in this unit group.

Classified elsewhere

- Insurance brokers (in 6231 *Insurance Agents and Brokers*)
- *Insurance, Real Estate and Financial Brokerage Managers* (0121)
- *Securities Agents, Investment Dealers and Brokers* (1113)

1241 Secretaries (Except Legal and Medical)

Secretaries perform a variety of administrative duties in support of managerial and professional employers. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

executive secretary
private secretary
secretary
technical secretary

Main duties

Secretaries perform some or all of the following duties:

- Prepare, key in, edit and proofread correspondence, invoices, presentations, brochures, publications, reports and related material from shorthand, machine dictation and handwritten copy using computers
- Open and distribute incoming regular and electronic mail and other material and co-ordinate the flow of information internally and with other departments and organizations
- Schedule and confirm appointments and meetings of employer
- Order office supplies and maintain inventory
- Answer telephone and electronic enquiries and relay telephone calls and messages
- Set up and maintain manual and computerized information filing systems
- Determine and establish office procedures
- Greet visitors, ascertain nature of business and direct visitors to employer or appropriate person
- Record and prepare minutes of meetings
- Arrange travel schedules and make reservations
- May compile data, statistics and other information and may conduct research
- May organize conferences
- May supervise and train other staff in procedures and in use of current software.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one or two-year college or other program for secretaries
  or
  Previous clerical experience is required.

Classified elsewhere

- *Court Recorders and Medical Transcriptionists* (1244)
- *Executive Assistants* (1222)
- *Legal Secretaries* (1242)
- *Medical Secretaries* (1243)
- Office managers (in 1221 *Administrative Officers*)

1242 Legal Secretaries

Legal secretaries perform a variety of secretarial and administrative duties in law offices, legal departments of large firms, real estate companies, land title offices, municipal, provincial and federal courts and government.

Examples of titles classified in this unit group

legal secretary
litigation secretary
real estate secretary

Main duties

Legal secretaries perform some or all of the following duties:

- Prepare and key in correspondence and legal documents, such as deeds, wills, affidavits and briefs, from handwritten copy, shorthand and machine dictation using computers
- Review and proofread documents and correspondence to ensure compliance with legal procedures and grammatical usage
- Schedule appointments, meetings and conferences for employer
- Set up and maintain filing systems, utilizing knowledge of legal records and procedures and frequently controlling confidential materials and documents
- Open and distribute regular and electronic incoming mail and other material and co-ordinate the flow of information internally and with other departments or organizations
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in the use of current software
- May attend court, meetings or conferences to take notes, minutes and dictation
- May perform other general office work as required including preparing financial statements.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one or two year college or other program for secretaries or legal secretaries is usually required.

Classified elsewhere

- By-law clerks (in 1441 *Administrative Clerks*)
- Court recorders (in 1244 *Court Recorders and Medical Transcriptionists*)
- *Paralegal and Related Occupations* (4211)

1243 Medical Secretaries

Medical secretaries perform a variety of secretarial and administrative duties in doctor's offices, hospitals, medical clinics and other medical settings.

Examples of titles classified in this unit group

medical secretary

ward secretary

Main duties

Medical secretaries perform some or all of the following duties:

- Schedule and confirm medical appointments and receive and communicate messages for medical staff and patients
- Prepare, key in, edit, and proofread medical records, reports, articles, case histories and correspondence from machine dictation, shorthand and handwritten notes using computers
- Interview patients in order to complete forms, documents and case histories
- Complete insurance and other claim forms
- Initiate and maintain confidential medical files and records
- Prepare financial statements and billing procedures
- Order supplies and maintain inventory
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in use of current software.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one or two-year college program or other specialized courses for secretaries or medical secretaries is usually required.

Classified elsewhere

- Medical records clerks (in 1413 *Records Management and Filing Clerks*)
- Medical transcriptionists (in 1244 *Court Recorders and Medical Transcriptionists*)

1244 Court Recorders and Medical Transcriptionists

Court recorders record and transcribe verbatim the proceedings of courts, legislative assemblies and committees, and prepare dictated reports, correspondence and statistics that require knowledge of legal terminology. They are employed by courts of law, provincial and federal legislative assemblies and committees, or they may be self-employed. Medical transcriptionists record and transcribe surgical proceedings, medical records and other reports requiring knowledge of medical terminology. They are employed by hospitals, medical clinics and doctors' offices, or they may be self-employed.

Examples of titles classified in this unit group

court recorder
court reporter
court stenographer
Hansard reporter
medical transcriptionist
transcriptionist

Main duties

Court recorders perform some or all of the following duties:

- Record verbatim proceedings of courtroom using computerized recording equipment, electronic stenograph machine or stenomask
- Respond to requests during court sessions to read back verbatim evidence
- Transcribe recorded proceedings in accordance with established formats
- Verify accuracy of transcripts by checking copy against original record of proceedings and accuracy of rulings by checking with judge
- Research and locate quotes to ensure accuracy
- Respond to requests for transcripts ordered by judges, lawyers or the public
- File and store shorthand notes of court session.

Medical transcriptionists perform some or all of the following duties:

- Transcribe machine dictation or rough notes from medical reports, correspondence, medical records and patient information
- Proofread work for typographical and grammatical errors.

Employment requirements

- Completion of secondary school is required.
- Completion of a college or other program in court reporting is required.
- Certified Medical Transcriptionist (CMT) or Chartered Shorthand Reporter (CSR) certificate may be required.

Additional information

- There is some mobility between occupations in this unit group and other occupations requiring similar knowledge of legal or medical terminology, such as legal or medical secretary.

Classified elsewhere

- *Legal Secretaries* (1242)
- *Medical Secretaries* (1243)

1411 General Office Clerks

General office clerks prepare correspondence, reports, statements and other material, operate office equipment, answer telephones and perform clerical duties of a general nature according to established procedures. They are employed in offices throughout the public and private sectors.

Examples of titles classified in this unit group

general office clerk
office assistant
office clerk
typist
word processor operator

Main duties

General office clerks perform some or all of the following duties:

- Key in, edit, proofread and finalize correspondence, reports, statements, invoices, forms, presentations and other documents, from notes or dictaphone, using computers
- Respond to telephone, in person or electronic enquiries or forward to appropriate person
- Provide general information to clients and the public
- Photocopy and collate documents for distribution, mailing and filing
- Maintain and prepare reports from manual or electronic files, inventories, mailing lists and databases
- Process incoming and outgoing mail, manually or electronically
- Send and receive messages and documents using fax machine or electronic mail
- May perform bookkeeping tasks such as preparing invoices and bank deposits
- May sort, process and verify applications, receipts, expenditures, forms and other documents
- May order office supplies, service office equipment and arrange for servicing in the case of major repairs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of secondary school or college business or commercial courses is usually required.

Additional information

- Progression to supervisory or office management positions is possible with experience.

Classified elsewhere

- *Administrative Clerks* (1441)
- *Data Entry Clerk* (1422)
- *Receptionists and Switchboard Operators* (1414)
- *Records Management and Filing Clerks* (1413)
- *Secretaries (Except Legal and Medical)* (1241)
- *Supervisors, General Office and Administrative support Clerks* (1211)

1413 Records Management and Filing Clerks

Records management clerks process, code, store and retrieve records and documents and apply retention and disposal schedules according to established policies and procedures. File clerks file papers, records, documents and other material according to subject matter or other filing system. Records and file clerks are employed throughout the private and public sectors. This unit group also includes health records technicians, who maintain systems for the collection, storage, retrieval and retention of health information. Health records technicians are employed by hospitals, clinics and other health care institutions.

Examples of titles classified in this unit group

aircraft records clerk
file and classification clerk
file clerk
health records technician
medical records clerk
microfilm records searcher
records classifier
records clerk
records filing-system clerk
records management clerk
technical records clerk

Main duties

Records management clerks perform some or all of the following duties:

- Classify, code, cross-reference and store records
- Maintain indexes for classification systems
- Operate information retrieval systems and respond to requests for records
- Review files periodically to ensure they are complete and correctly classified
- Label files according to retention and disposal schedules and prepare files for disposal
- Maintain access lists for security classified records
- Compile statistics and reports on activities within records services.

File clerks perform some or all of the following duties:

- Sort material that is to be filed according to particular filing systems
- File material in drawers, cabinets and storage boxes
- Locate and remove materials from files when requested
- Keep records of materials filed and removed.

Health records technicians perform some or all of the following duties:

- Classify, code, cross-reference and store health records and related information
- Maintain indexes for classification systems
- Operate information retrieval systems and respond to requests for health record information
- Prepare medical, social and administrative statistics
- Apply knowledge of medical terminology, physiology and treatments.

Employment requirements

- Health records technicians require completion of a two- to three-year college or other program in health records management
  and
  Certification by the Canadian Health Record Association.
- Records clerks and file clerks usually require completion of secondary school.
- Records clerks may require completion of college or other program in records management and usually require experience as a file clerk.

Additional information

- Health records technicians are nationally certified and are eligible for employment in all provinces and territories.
- Progression to supervisory positions is possible with experience.

1413 Records Management and Filing Clerks

Classified elsewhere

- *General Office Clerks* (1411)
- Health record unit supervisors (in 1211 *Supervisors, General Office and Administrative Support Clerks*)
- Health records administrators (in 0114 *Other Administrative Services Managers*)
- *Library Clerks* (1451)
- Library technicians (in 5211 *Library and Archive Technicians and Assistants*)
- Records management supervisors (in 1211 *Supervisors, General Office and Administrative Support Clerks*)
- Records systems analysts (in 1122 *Professional Occupations in Business Services to Management*)

1414 Receptionists and Switchboard Operators

Receptionists and switchboard operators greet people arriving at offices, hospitals and other establishments, direct visitors to appropriate person or service, answer and forward telephone calls, take messages, schedule appointments and perform other clerical duties. They are employed by hospitals, medical and dental offices and in other offices throughout the public and private sectors.

Examples of titles classified in this unit group

admitting clerk
answering service operator
business receptionist
dental receptionist
front desk clerk (other than hotel)
hospital admitting clerk
medical receptionist
reception clerk
receptionist
switchboard operator
telereceptionist

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Receptionists greet people coming into offices and other establishments, direct them to the appropriate contacts or services, and provide information in person and by phone and may perform clerical duties and maintain front desk security and security access lists.
- Hospital admitting clerks interview patients to obtain and process information required to provide hospital and medical services.
- Medical and dental receptionists greet patients, schedule appointments, using manual or computerized systems, receive and record payment for services, and direct patients to appropriate areas.
- Switchboard operators operate a telephone system or switchboard to answer, screen and forward telephone calls, taking messages and providing information as required; and may perform clerical duties.
- Answering service operators answer telephones and record and relay messages.
- Front desk clerks in a variety of institutional and commercial settings direct customers to appropriate areas, record bookings, handle credit card checks, receive payment, issue receipts, arrange tour reservations and deal with emergency situations.

Employment requirements

- Completion of secondary school is usually required.
- On the job training may be provided.

Additional information

- Some receptionists are required to be bilingual or multilingual to perform their duties.

Classified elsewhere

- *Customer Service, Information and Related Clerks* (1453)
- *Hotel Front Desk Clerks* (6435)
- Receptionist supervisors (in 1211 *Supervisors, General Office and Administrative Support Clerks*)
- *Telephone Operators* (1424)

1422 Data Entry Clerks

Data entry clerks input coded, statistical and other information onto diskettes, disks or tapes for storage using computers and data entry consoles. They are employed in offices and computer centres throughout the private and public sectors.

Examples of titles classified in this unit group

data control clerk
data entry operator
data input clerk
data processor
payment entry clerk

Main duties

Data entry clerks perform some or all of the following duties:

- Receive and register invoices, forms, records and other documents for data capture
- Input source data to diskettes, disks and tapes for storage using computers and data entry consoles
- Transfer data between different kinds of software
- Identify, label and store diskettes, disks and tapes
- Verify accuracy and completeness of data
- Maintain libraries of diskettes, disks and tapes.

Employment requirements

- Completion of secondary school may be required.
- College or other courses in data entry may be required.

Additional information

- Progression to senior positions is possible with experience.

Classified elsewhere

- *General Office Clerks* (1411)
- *Supervisors, General Office and Administrative Support Clerks* (1211)

1423 Desktop Publishing Operators and Related Occupations

Desktop publishing operators use computers to enter copy into a typesetting system or operate typesetting output equipment to produce text that is ready to print. They are employed by firms that specialize in typesetting, commercial printing companies, newspapers, magazines and in various establishments in the public and private sectors that have in-house printing departments. This unit group also includes markup persons and pre-flight operators.

Examples of titles classified in this unit group

Braille keyboard operator
compositor
computer typesetter
copy marker
desktop compositor
desktop publishing (DTP) operator
file preparation operator
input operator – typesetting
markup person
output operator – typesetting
phototypesetter operator
typesetter
typographer

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Desktop publishing operators operate desktop publishing software and equipment to design, lay out and produce camera-ready copy and may perform pre-flight operator duties.
- Markup persons mark copy with computer codes and typographic instructions before it is typeset.
- Typesetting input operators input copy, codes or commands and subsequent corrections into typesetting device or system; operate media conversion equipment to process and format copy transmitted through telecommunications.
- Typesetting output operators operate and tend typesetting output devices. load and process photosensitive material and perform routine maintenance.
- Pre-flight operators use computer software to confirm cost estimates, evaluate composition of orders, assess graphic images, and check fonts and other details to ensure that customers' files are complete before going to print.
- File preparation operators operate computers, image setters and digital proofers to transfer output or data to hard copy form.

Employment requirements

- Completion of secondary school is required
- Completion of a college program in graphic arts, or other training in typography, computer typesetting, or desktop publishing is usually required.

Additional information

- Progression to supervisory positions is possible through experience.

Classified elsewhere

- Copy stylists, mechanical artists and past-up artists (in 5223 *Graphic Arts Technicians*)
- Desktop publishing operator supervisors (in 1211 *Supervisors, General Office and Administrative Support Clerks*)
- *Graphic Designers and Illustrators* (5241)
- Proofreaders (in 1452 *Correspondence, Publication and Related Clerks*)

1424 Telephone Operators

Telephone operators operate computerized telephone systems to advance and assist the completion of telephone calls. They are employed by telephone companies.

Examples of titles classified in this unit group

directory assistance operator
telephone operator
telephone service assistant
toll operator

Main duties

Telephone operators perform some or all of the following duties:

- Operate telephone systems to advance and complete customers' telephone calls such as long distance, pay telephone, mobile radio/telephone, person to person and emergency calls
- Operate computerized directory listing systems or consult printed directories to provide directory assistance for customers
- Arrange teleconferences, provide emergency services and relay phone service to people with disabilities
- Calculate billing charges and record billing information.

Employment Requirements

- Completion of secondary school required.
- On the job training is provided.

Additional Information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Receptionists and Switchboard Operators* (1414)
- Supervisors of telephone operators (in 1211 *Supervisors, General Office and Administrative Support Clerks*)

1431 Accounting and Related Clerks

This unit group includes clerks who calculate, prepare and process bills, invoices, accounts payable and receivable, budgets and other financial records according to established procedures. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

accounting clerk
accounts payable clerk
accounts receivable clerk
audit clerk
billing clerk
budget clerk
costing clerk
deposit clerk
finance clerk
freight-rate clerk
income tax return preparer
invoice clerk
ledger clerk
tax clerk

Main duties

Accounting and related clerks perform some or all of the following duties:

- Calculate, prepare and issue documents related to accounts such as bills, invoices, inventory reports, account statements and other financial statements using computerized and manual systems
- Code, total, batch, enter, verify and reconcile transactions such as accounts payable and receivable, payroll, purchase orders, cheques, invoices, cheque requisitions, and bank statements in a ledger or computer system
- Compile budget data and documents based on estimated revenues and expenses and previous budgets
- Prepare period or cost statements or reports
- Calculate costs of materials, overhead and other expenses based on estimates, quotations, and price lists
- Respond to customer inquiries, maintain good customer relations and solve problems
- Perform related clerical duties, such as word processing, maintaining filing and record systems, faxing and photocopying.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses in accounting, bookkeeping or computer operation may be required.
- Some accounting clerks must be bondable.

Additional information

- Progression to supervisory or skilled financial occupations, such as accounts payable supervisor, bookkeeper, or office manager is possible with additional training and experience.

Classified elsewhere

- *Banking, Insurance and Other Financial Clerks* (1434)
- *Bookkeepers* (1231)
- *Collectors* (1435)
- *Financial Auditors and Accountants* (1111)
- *Payroll Clerks* (1432)
- *Supervisors, Finance and Insurance Clerks* (1212)

1432 Payroll Clerks

Payroll clerks collect, verify and process payroll information and determine pay and benefit entitlements for employees within a department, company or other establishment. They are employed by payroll administration companies and by establishments throughout the private and public sectors.

Examples of titles classified in this unit group

benefits officer
pay advisor
pay and benefits administrator
pay and benefits clerk
pay clerk
payroll clerk
payroll officer
salary administration officer

Main duties

Payroll clerks perform some or all of the following duties:

- Maintain records of employee attendance, leave and overtime to calculate pay and benefit entitlements, in Canadian and other currencies, using manual or computerized systems
- Prepare and verify statements of earnings for employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishees and insurance and pension plans
- Prepare employee payments and benefit payments by cheque or electronic transfer
- Complete, verify and process forms and documentation for administration of benefits such as pension plans, leaves, share savings, employment and medical insurance
- Prepare T4 statements and other statements
- Provide information to employees on payroll matters, benefit plans and collective agreement provisions
- Compile statistical reports, statements, and summaries related to pay and benefits accounts
- Prepare and balance period-end reports and reconcile issued payrolls to bank statements.

Employment requirements

- Completion of secondary school is usually required
- Completion of college or other courses in accounting, bookkeeping or payroll administration
  or
  Experience as a financial clerk is usually required.
- Payroll association certification may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Administrative Clerks* (1441)
- *Personnel and Recruitment Officers* (1223)
- *Personnel Clerks* (1442)
- Supervisors of payroll clerks (in 1212 *Supervisors, Finance and Insurance Clerks*)

1433 Customer Service Representatives – Financial Services

Customer service representatives in this unit group process customers' financial transactions and provide information on related banking products and services. They are employed by banks, trust companies, credit unions and similar financial institutions.

Examples of titles classified in this unit group

bank teller
credit union teller
financial customer service representative
foreign exchange teller

Main duties

Customer service representatives in this unit group perform some or all of the following duties:

- Process customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions
- Obtain and process information required for the provision of services, such as opening accounts and savings plans and purchasing bonds
- Sell travellers' cheques, foreign currency and money orders
- Balance daily transactions using computer programs, calculators and adding machines
- Sort and file deposit slips and cheques
- Prepare customer statements and other correspondence for mailing
- Answer enquiries and resolve problems or discrepancies concerning customers' accounts.

Employment requirements

- Completion of secondary school is required.
- A business college diploma may be required.
- On-the-job training is provided.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Banking, Insurance and Other Financial Clerks* (1434)
- *Customer Service, Information and Related Clerks* (1453)
- *Supervisors, Finance and Insurance Clerks* (1212)

1434 Banking, Insurance and Other Financial Clerks

Banking, insurance and other financial clerks compile, process and maintain banking, insurance and other financial information. They are employed by banks, credit companies, private and public insurance establishments, investment firms and other financial establishments throughout the private and public sectors.

Examples of titles classified in this unit group

actuarial clerk
bank clerk
credit clerk
dental claims clerk
dividend calculation clerk
insurance clerk
insurance rater
ledger control clerk
loan clerk
mortgage clerk
premium rater
real estate clerk
securities clerk

Main duties

Bank clerks perform some or all of the following duties:

- Compile records of deposits, withdrawals, loan and mortgage payments, cheques and purchase, sale and exchange of securities
- Process loan and mortgage applications, loan and mortgage payments, retirement savings plan applications, term deposits, drafts and money orders
- Verify and balance automatic teller machine transactions and ledger entries, calculate service charges and interest payments and notify customers regarding account discrepancies and captured bank cards
- Answer enquiries and provide information on banking products, policies and services
- May sell drafts, money orders, travellers' cheques and foreign currency, rent safety deposit boxes and open and close savings, chequing and other accounts.

Insurance clerks perform some or all of the following duties:

- Process enrolments, cancellations, claims transactions, policy changes and premium payments
- Review insurance applications and verify insurance coverage, premiums paid and other insurance information
- Calculate insurance premiums, pension benefits and annuity payments
- Compile and maintain claims data, rates and insurance data and records
- Answer enquiries and provide information on insurance products, policies and services.

Other financial clerks in this unit group perform some or all of the following duties:

- Compile and maintain rental, sale and other real estate listings
- Compile and maintain stock, bond and other securities listings
- Sort, verify and process real estate, securities and other financial transactions
- Answer enquiries and reply to correspondence.

Employment requirements

- Completion of secondary school is required.
- A business college diploma may be required.
- On-the-job training and short-term training courses or programs specific to the financial establishment are usually required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Bookkeepers* (1231)
- *Customer Service, Information and Related Clerks* (1453)
- *Customer Service Representatives – Financial Services* (1433)
- *General Office Clerks* (1411)
- *Supervisors, Finance and Insurance Clerks* (1212)

1435 Collectors

Collectors collect payments on overdue accounts and bad cheques and locate debtors to make collection arrangements. They are employed by collection agencies, utility companies, department stores, loan companies, banks and credit unions, and by financial and licensing departments within governments.

Examples of titles classified in this unit group

bill collector
collection clerk
collection officer
collections investigation officer
collector
credit and collection clerk
locator
skip tracer

Main duties

Collectors perform some or all of the following duties:

- Notify debtors of overdue payments and accounts by telephone, mail, and registered mail, and continue the notification process if reply is not received
- Resolve collection issues by making payment arrangements by telephone or visit to debtor
- Recommend legal action or discontinuation of service in cases where payment is not forthcoming
- Trace and locate debtors, and may contact debtors' friends, neighbours, relatives and employers to obtain information
- Answer correspondence, prepare reports and maintain records and files related to collection work
- May work with on-line accounts and systems.

Employment requirements

- Completion of secondary school is required.
- A business college diploma may be required.
- A period of on-the-job training is often provided for collection clerks and collection officers.
- A collections licence issued by the province or territory of employment is usually required.

Additional information

- Progression to senior or supervisory positions is possible with experience.

Classified elsewhere

- Accounts receivable clerks (in 1431 *Accounting and Related Clerks*)
- Collections supervisors (in 1212 *Supervisors, Finance and Insurance Clerks*)
- Tax collection officers (in 1228 *Immigration, Employment Insurance and Revenue Officers*)

1441 Administrative Clerks

Administrative clerks compile, verify, record and process forms and documents, such as applications, licences, permits, contracts, registrations and requisitions, in accordance with established procedures, guidelines and schedules. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

administrative clerk
application clerk
authorization clerk
by-law clerk
customs clerk
documentation clerk
import clerk
licence clerk
office administration clerk
passport clerk
registration clerk
registry clerk
ward clerk – hospital
warranty clerk

Main duties

Administrative clerks performs some or all of the following duties:

- Compile, verify, record and process applications, licences, permits, contracts, registrations, requisitions, and other forms and documents in accordance with established procedures and schedules, using computerized and manual processing systems
- Authorize and issue licences, permits, registration papers, reimbursements or other material after requesting documents have been processed and approved
- Maintain inventory of office supplies and order supplies as required
- Prepare reports, presentations and provide information to staff and general public regarding company and program rules, regulations and procedures
- Assist in the co-ordination of administrative procedures such as budget submissions, contracts administration and work schedules
- May be responsible for some accounting tasks
- May organize and co-ordinate flow of work for general office clerks and data entry clerks.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses in business administration is usually required.

Additional information

- Progression to supervisory positions is possible with experience.
- Progression to officer level positions is possible with additional training and experience.

Classified elsewhere

- *Administrative Officers* (1221)
- *Court Clerks* (1443)
- *Executive Assistants* (1222)
- *General Office Clerks* (1411)
- *Personnel Clerks* (1442)
- *Supervisors, General Office and Administrative Support Clerks* (1211)

1442 Personnel Clerks

Personnel clerks assist personnel officers and human resources specialists and compile, maintain and process information relating to staffing, recruitment, training, labour relations, performance evaluations and classifications. They are employed in personnel departments throughout the private and public sectors.

Examples of titles classified in this unit group

classification clerk – human resources
employment clerk
human resources assistant
human resources clerk
labour relations clerk
personnel services clerk
staffing clerk
training clerk

Main duties

Personnel clerks perform some or all of the following duties:

- Process, verify and register documentation relating to personnel activities such as staffing, recruitment, training, grievances, performance evaluations and classifications
- Maintain and update manual and computerized filing and registration systems, and compile and prepare reports and documents relating to personnel activities
- Respond to telephone and written enquiries from staff and the general public regarding personnel matters
- Arrange for advertising or posting of job vacancies, assist in screening and rating of job applicants, and conduct reference checks
- Administer and score employment tests, such as keyboarding and proofreading tests
- Arrange for in-house and external training activities.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses in personnel administration may be required.
- Some clerical experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- Progression to officer level positions is possible with additional training and experience.

Classified elsewhere

- *Administrative Clerks* (1441)
- *College and Other Vocational Instructors* (4131)
- *Payroll Clerk* (1432)
- *Personnel and Recruitment Officers* (1223)
- *Specialists in Human Resources* (1121)

1443 Court Clerks

This unit group includes those who perform support functions in courts of law, such as calling court to order, preparing court dockets and maintaining exhibits. Court clerks are employed by federal and provincial courts.

Examples of titles classified in this unit group

court clerk
court clerk-crier
criminal court clerk
judicial clerk
provincial court clerk

Main duties

Court clerks perform some or all of the following duties:

- Call courts of law to order; read charges; take pleas from defendants; swear in witnesses and perform other clerical functions in the courtrooms
- Prepare court files, court dockets and other documents
- Record main court proceedings, including pleas, names of witnesses, dates, times and rulings
- Manage care and custody of court exhibits
- Prepare documents for and participate in jury selection
- Update and maintain court office paper and electronic indexes and files on actions taken by court or in response to court decisions
- Receive, disburse and account for fines, fees and trust monies
- Assist the public in court offices.

Employment requirements

- Completion of secondary school is required.
- On-the-job training is provided.

Additional information

- Progression to supervisory or court officer positions is possible with experience.

Classified elsewhere

- *Court Officers and Justices of the Peace* (1227)
- *Court Recorders and Medical Transcriptionists* (1244)

1451 Library Clerks

Library clerks issue and receive library materials, sort and shelve books and provide general library information to users. They also perform clerical functions. Library clerks are employed by libraries or other establishments with library services.

Examples of titles classified in this unit group

circulation clerk
library clerk
library page
interlibrary loan clerk
periodicals clerk
reference clerk
shelving clerk – library

Main duties

Library clerks perform some or all of the following duties:

- Issue and receive library books and other materials
- Reshelve books and other library materials
- Perform clerical activities such as, manual and electronic filing, word processing and occasional typing
- Maintain journal subscriptions
- Assist library users in accessing basic library materials and making interlibrary loans.

Employment requirements

- Completion of secondary school is usually required.

Additional information

- Progression to more senior positions is possible with experience and post-secondary education related to library science.

Classified elsewhere

- *Librarians* (5111)
- Library technicians (in 5211 *Library and Archive Technicians and Assistants*)
- *Supervisors, Library , Correspondence and Related Information Clerks* (1213)

1452 Correspondence, Publication and Related Clerks

Clerks in this unit group write correspondence, proofread material for accuracy, compile material for publication and perform other related clerical duties. They are employed by newspapers, periodicals, publishing firms and by establishments throughout the private and public sectors.

Examples of titles classified in this unit group

advertising clerk
classified advertising clerk
correspondence clerk
directory compiler
editorial assistant
press clipper
proofreader
publication clerk
reader
translation clerk

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Classified advertising clerks receive customers' orders for classified advertising, write and edit copy, calculate advertising rates and bill customers.
- Correspondence clerks write business and government correspondence such as replies to requests for information and assistance, damage claims, credit and billing enquiries and service complaints.
- Editorial assistants and publication clerks assist in the preparation of periodicals, advertisements, catalogues, directories and other material for publication; proofread material; verify facts and conduct research.
- Proofreaders read material prior to publication to detect and mark for correction any grammatical, typographical or compositional errors within tight deadlines.
- Readers and press clippers read newspapers, magazines, press releases and other publications to locate and file articles of interest to staff and clients.

Employment requirements

- Completion of secondary school is required.
- Additional courses or a diploma in writing, journalism or a related field may be required.
- Previous clerical or administrative experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Professional Occupations in Public Relations and Communications* (5124)
- *Supervisors, Library, Correspondence and Related Information Clerks* (1213)

1453 Customer Service, Information and Related Clerks

This unit group includes clerks who answer enquiries and provide information regarding an establishment's goods, services and policies and who provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, call centres, insurance, telephone and utility companies and by other establishments throughout the private and public sectors.

Examples of titles classified in this unit group

account information clerk
bus information clerk
call centre agent
complaints clerk – customer service
counter enquiries clerk
courtesy desk clerk
customer service clerk
customer services representative – call centre
enquiries clerk
hospital information clerk
information clerk – customer service
lost-and-found clerk
order desk agent
public relations clerk
tourist information clerk

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Customer service clerks in retail establishments answer, in person or on the phone, enquiries from customers and investigate complaints regarding the establishment's goods, services and policies; arrange for refunds, exchange and credit for returned merchandise; receive account payments; and receive credit and employment applications.
- Call centre agents take customer orders for goods or services; promote goods or services; respond to enquiries and emergencies; investigate complaints and update accounts.
- Customer service clerks in insurance, telephone, utility and similar companies explain the type and cost of services offered; order services; provide information about claims or accounts; update accounts; initiate billing and process claim payments; and receive payment for services.
- Information clerks provide information to customers and the public concerning goods, services, schedules, rates, regulations and policies in response to telephone and in-person enquiries.

Employment requirements

- Completion of secondary school is usually required.
- Completion of some college or other post-secondary programs may be required.
- Clerical or sales experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Correspondence, Publication and Related Clerks* (1452)
- Customer service representatives in banks and other financial institutions (in 1433 *Customer Service Representatives – Financial Services*)
- General ticket and information agents (airline) (in 6433 *Airline Sales and Service Agents*)
- *Receptionists and Switchboard Operators* (1414)
- *Retail Salespersons and Sales Clerks* (6421)
- *Supervisors, Library, Correspondence and Related Information Clerks* (1213)
- Ticket and information clerks (except airline) (in 6434 *Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)*)

1454 Survey Interviewers and Statistical Clerks

Survey interviewers contact individuals to gather information for market research, public opinion polls or election and census enumeration. Statistical clerks code and compile interview and other data into reports, lists, directories and other documents. Workers in this unit group are employed by market research and polling firms, government departments and agencies, utility companies and other establishments. This unit group also includes clerks who observe and record information on traffic flow and who take utility meter readings.

Examples of titles classified in this unit group

census enumerator
coding clerk
election enumerator
interview clerk
poll clerk
public interviewer
statistical clerk
survey interviewer
telephone survey clerk

Main duties

Survey interviewers perform some or all of the following duties:

- Contact individuals by telephone or in person and explain the purpose of the interview
- Ask questions following the outlines of questionnaires and surveys
- Record responses on paper or enter responses directly into computer database through computer-assisted interviewing systems.

Statistical clerks perform some or all of the following duties:

- Check information gathered for completeness and accuracy
- Code information according to established coding manuals and enter data onto computers
- Conduct routine statistical analysis of data
- Compile interview and other data into reports and lists.

Employment requirements

- Completion of secondary school may be required.
- Experience in the operation of a computer may be required
- On-the-job training is usually provided.
- May require driver's licence.

Classified elsewhere

- *Correspondence, Publication and Related Clerks* (1452)
- *Customer Service, Information and Related Clerks* (1453)
- Telemarketers (in 6623 *Other Elemental Sales Occupations*)

1461 Mail, Postal and Related Clerks

This unit group includes clerks who process and sort mail and parcels in post offices, mail processing plants and internal mail rooms, and clerks who serve customers and record transactions at sales counters and postal wickets. Mail, postal and related clerks are employed by Canada Post Corporation, courier and parcel express services and establishments throughout the public and private sectors.

Examples of titles classified in this unit group

bus parcel express clerk
express mail service clerk
mail clerk
mail room clerk
mail sorter
management services clerk
postal clerk
postal counter clerk
postal wicket clerk
railway mail clerk

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Postal clerks calculate and affix the correct postage on letters parcels and registered mail and receive payment from customers; sell stamps, prepaid mail and courier envelopes and money orders; route mail to the proper delivery stream; sign or obtain signatures from recipients for registered or special delivery mail and keep records; answer inquiries and complete forms regarding change of address, theft or loss of mail; and record and balance daily transactions.
- Mail sorters sort mail according to destination; bundle, label, bag and route sorted mail to the proper delivery stream; and search directories to find the correct address for redirected mail.
- Mail room clerks receive, process, sort and distribute incoming and outgoing mail, faxes, messages, courier packages manually or electronically; maintain address databases and produce personalized mailings; print and photocopy material, address and stuff envelopes; weigh, calculate, affix proper postage and bundle outgoing mail by postal code; and may operate and maintain print shop and mailing house equipment.

Employment requirements

- Completion of secondary school and some college office administration courses may be required.

Additional information

- Progression to supervisory or facility management positions is possible with additional training or experience.

Classified elsewhere

- *Couriers, Messengers and Door-to-door Distributors* (1463)
- *Letter Carriers* (1462)
- *Supervisors, Mail and Message Distribution Occupations* (1214)

1462 Letter Carriers

Letter carriers sort and deliver mail, record delivery of registered mail and collect money for cash-on-delivery parcels. Letter carriers are employed by Canada Post Corporation.

Examples of titles classified in this unit group

letter carrier
mail carrier
rural mail carrier

Main duties

Letter carriers perform some or all of the following duties:

- Organize mail by address and load into mailbag
- Deliver letters, small parcels and other printed matter along established routes
- Deliver telegrams, special delivery and express mail
- Collect payment for cash-on-delivery service
- Record delivery of registered mail
- Leave notices that items could not be delivered and the location where they can be picked up
- Return undeliverable mail to postal station.

Employment requirements

- Some secondary school education is required.
- Two weeks to one month of training is provided by Canada Post Corporation.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Couriers, Messengers and Door-to-door Distributors* (1463)
- Letter carrier supervisors (in 1214 *Supervisors, Mail and Message Distribution Occupations*)
- *Mail, Postal and Related Clerks* (1461)

1463 Couriers, Messengers and Door-to-Door Distributors

Couriers, messengers and door-to-door distributors pick up and deliver letters, parcels, packages, newspapers, flyers and other items within and between establishments. They are employed by courier service companies and other establishments throughout the private and public sectors.

Examples of titles classified in this unit group

bank messenger
courier
delivery person – courier service
door-to-door distributor
flyer distributor
messenger
newspaper carrier
runner

Main duties

Couriers, messengers and door-to-door distributors perform some or all of the following duties:

- Pick up messages, letters, envelopes, parcels, airline tickets, legal documents, packages, bonds, cheques, securities and other items from customers, and hand-deliver them to addresses within an establishment or in other establishments by walking or cycling within prescribed time periods
- Collect payment for items delivered
- Keep record of items received and delivered using delivery information acquisition devices
- Deliver newspapers, flyers, handbills, telephone directories and similar items to residences and businesses.

Employment requirements

- Secondary school education may be required.
- Eligibility for bonding may be required.
- Ability to navigate streets and follow directions is usually required.
- Physical fitness is required for some occupations in this unit group.

Additional information

- There is some mobility into other delivery occupations such as delivery drivers.
- There may be mobility to clerical occupations within the company.
- Progression to supervisory positions may be possible with experience.

Classified elsewhere

- *Delivery and Courier Service Drivers* (7414)
- *Letter Carriers* (1462)
- *Supervisors, Mail and Message Distribution Occupations* (1214)

1471 Shippers and Receivers

Shippers and receivers ship, receive and record the movement of parts, supplies, materials, equipment and stock to and from an establishment. They are employed in the public sector and by retail and wholesale establishments, manufacturing companies, and other commercial and industrial establishments.

Examples of titles classified in this unit group

freight receiver
freight shipper
import freight clerk
receiver
shipper
shipper-receiver
shipping agent
shipping and receiving clerk

Main duties

Shippers and receivers perform some or all of the following duties:

- Determine method of shipment and arrange shipping; prepare bills of lading, customs forms, invoices and other shipping documents manually or by computer
- Assemble containers and crates, record contents manually or in computer system, pack goods to be shipped and affix identifying information and shipping instructions
- Oversee loading and unloading of goods from trucks or other conveyances
- Inspect and verify incoming goods against invoices or other documents, record shortages and reject damaged goods
- Unpack, code and route goods to appropriate storage areas
- Maintain internal, manual or computerized record-keeping systems
- May operate forklift, hand truck or other equipment to load, unload, transport and store goods.

Employment requirements

- Completion of secondary school is usually required.
- Experience in a related clerical occupation or as a warehouse worker may be required.
- Forklift certificate may be required.
- Driver's licence may be required.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Material Handlers* (7452)
- *Purchasing and Inventory Clerks* (1474)
- *Storekeepers and Parts Clerks* (1472)

1472 Storekeepers and Parts Clerks

Storekeepers and parts clerks sort, store and issue parts and supplies for use by the establishment in which they work and for sale to the public. They are employed by manufacturing companies, warehouses, retail and wholesale establishments, mining, forestry and construction companies, repair shops, hospitals and other establishments, and the armed forces.

Examples of titles classified in this unit group

ammunition storekeeper
automotive partsperson
material keeper
medical supply clerk
motor vehicle parts clerk
parts clerk
parts supplier
partsperson
ship storeman/woman
storekeeper
tool room attendant

Main duties

Storekeepers and parts clerks perform some or all of the following duties:

- Receive and sort incoming parts and supplies
- Store items in an orderly and accessible manner in a warehouse, tool room, supply room or other area
- Process incoming requisitions and issue or distribute parts and supplies for internal usage
- Maintain records of orders and the amount, kind and location of parts and supplies on hand using manual or computerized inventory system
- Prepare requisition orders to replenish parts and supplies
- Sell spare and replacement parts for motor vehicles, machinery and equipment in a retail setting
- Advise retail customers or internal users on appropriateness of parts, supplies or materials requested.

Parts clerks may specialize in a particular line of parts such as automotive parts, recreational vehicle parts, marine parts, heavy equipment parts, agricultural machinery parts, heating, ventilating and air conditioning parts or refrigeration parts.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program
  or
  Completion of specialized training in high school and a one-year college program for parts clerks may be required.
- Trade certification for partspersons is available, but voluntary, in all provinces and territories except Ontario.
- Trade certification for industrial engines and equipment partspersons is available, but voluntary, in British Columbia.
- For parts clerks, experience in a related clerical occupation or as a warehouse worker may be required.
- Interprovincial trade certification (Red Seal) is also available to qualified partspersons.

Additional information

- Progression to supervisory positions is possible with additional training or experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Parts clerks supervisors (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)
- *Purchasing and Inventory Clerks* (1474)
- *Shippers and Receivers* (1471)

1473 Production Clerks

Production clerks co-ordinate and expedite the flow of work and materials within an establishment, prepare work and production schedules and monitor the progress of production and construction projects. Production clerks are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments.

Examples of titles classified in this unit group

expediter
material estimator
production clerk
production coordinator
production scheduler
scheduling clerk
traffic control clerk

Main duties

Production clerks perform some or all of the following duties:

- Compile detailed worksheets and specifications from customer's order
- Estimate type and quantity of materials and labour required for production, construction and other projects
- Consult with production supervisor to schedule production runs in a cost and time-efficient manner
- Meet regularly with other production clerks, warehouse, production and construction supervisors and purchasing and inventory clerks to co-ordinate activities between warehouses and production floors or construction sites
- Co-ordinate and monitor the movement of parts, supplies and materials within an establishment and ensure that supplies, materials and products are shipped and received on schedule
- Prepare and maintain various reports on the progress of work, materials used, rates of production and other production information, using manual or computerized systems.

Employment requirements

- Completion of secondary school is usually required.
- Previous clerical experience or experience as a production worker may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Purchasing and Inventory Clerks* (1474)
- *Shippers and Receivers* (1471)
- *Storekeepers and Parts Clerks* (1472)

1474 Purchasing and Inventory Clerks

Purchasing and inventory clerks process purchasing transactions and maintain inventories of materials, equipment and stock. They are employed by retail and wholesale establishments, manufacturing companies, government agencies and other establishments.

Examples of titles classified in this unit group

inventory analyst
inventory clerk
inventory control clerk
inventory planner
procurement clerk
purchasing clerk
purchasing clerk assistant

Main duties

Purchasing clerks perform some or all of the following duties:

- Review requisition orders for accuracy and verify that materials, equipment and stock are not available from current inventories
- Source and obtain price quotations from catalogues and suppliers and prepare purchase orders
- Calculate cost of order and charge or forward invoice to appropriate account
- Process purchases within purchasing authority
- Contact suppliers to schedule deliveries and to resolve shortages, missed deliveries and other problems
- Prepare and maintain purchasing files, reports and price lists.

Inventory clerks perform some or all of the following duties:

- Monitor inventory levels as materials, equipment and stock are issued, transferred within an establishment or sold to the public using manual or computerized inventory systems
- Compile inventory reports, recording the quantity, type and value of materials, equipment and stock on hand, using manual or computerized inventory systems
- Prepare requisition orders to replenish materials, equipment and stock
- Maintain stock rotation and dispose of and account for outdated stock
- Enter data for production scheduling, stock replenishment/relocation and inventory adjustments
- Reconcile physical inventories with computer counts.

Employment requirements

- Completion of secondary school is usually required.
- Courses in purchasing management may be required for purchasing clerks.
- Courses in production and inventory management and ability to operate a computerized inventory system may be required for inventory clerks.

Additional information

- The duties of purchasing and inventory clerks may overlap in some establishments.
- Progression to supervisory positions or more senior occupations such as purchasing agent or retail buyer is possible with additional training or experience.

Classified elsewhere

- *Purchasing Agents and Officers* (1225)
- *Retail and Wholesale Buyers* (6233)
- *Storekeepers and Parts Clerks* (1472)
- Supervisors of purchasing and inventory clerks (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)

1475 Dispatchers and Radio Operators

Dispatchers operate radios and other telecommunication equipment to dispatch emergency vehicles and to co-ordinate the activities of drivers and other personnel. They are employed by police, fire and health departments, other emergency service agencies, taxi, delivery and courier services, trucking and utilities companies, and other commercial and industrial establishments. Radio operators receive, transmit and record signals and messages using radios and other telecommunication equipment. They are employed by transportation companies, mining, forestry and other industrial establishments, and by the armed forces.

Examples of titles classified in this unit group

911 dispatcher
alarm system dispatcher
ambulance dispatcher
dispatcher
emergency vehicle dispatcher
inbound/outbound freight coordinator
mobile equipment dispatcher
radio operator
radio operator military
taxi dispatcher
tow truck dispatcher
truck dispatcher
utilities maintenance crew dispatcher

Main duties

Dispatchers perform some or all of the following duties:

- Receive requests for emergency assistance or service and contact ambulances, police and fire departments, tow-trucks, and utility crews
- Process and transmit information and instructions to co-ordinate the activities of vehicle operators, crews and equipment using a variety of computer-aided communications and dispatching equipment
- Dispatch personnel according to written schedules and work orders, or as required by emergency situations
- Advise vehicle operators of route and traffic problems such as construction, accidents, congestion, weather conditions, weight and size restrictions and other information
- Monitor personnel workloads and locations
- Maintain operator work records using computerized or manual methods and ensure time sheets and payroll summaries are completed accurately
- Maintain computer and manual records of mileage, fuel use, repairs and other expenses, and generate reports.

Radio operators perform some or all of the following duties:

- Operate radio equipment to communicate with ships, aircraft, mining crews, offshore oil rigs, logging camps and other remote operations
- Operate and assist in the maintenance of fixed, air transportable, mobile and naval communications equipment in the Canadian armed forces.

Employment requirements

- Completion of secondary school is required.
- Police and emergency dispatchers are required to complete formal on-the-job training. Other dispatchers usually undergo some informal on-the-job training.
- Radio operators and police and emergency dispatchers usually require provincial radio operator's certificates.

Classified elsewhere

- *Air Traffic Control and Related Occupations* (2272)
- Bus dispatchers (in 7222 *Supervisors, Motor Transport and Other Ground Transit Operators*)
- *Railway Traffic Controllers and Marine Traffic Regulators* (2275)
- Supervisors of dispatchers (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)

1476 Transportation Route and Crew Schedulers

Transportation route and crew schedulers prepare operational and crew schedules for transportation equipment and operating personnel. They are employed by municipal transit commissions, truck, delivery and courier services, railways, airlines and by other transportation establishments in both the private and public sectors.

Examples of titles classified in this unit group

bus scheduler
crew scheduler, transportation
flight crew scheduler
schedule analyst
schedule writer, transportation
train scheduler
transit scheduler
truck scheduler

Main duties

Transportation route and crew schedulers perform some or all of the following duties:

- Review schedule requisitions, passenger counts and cargo, running times, distances, personnel availability and other pertinent information to establish schedule parameters
- Design new or modify existing schedules using computer software or other methods
- Incorporate into route plan factors such as peak travel periods, holidays, special events and construction with emphasis on time and cost efficiency
- Assign personnel to equipment and routes and schedule work shifts
- Compile equipment and personnel records, including hours in service, distances, maintenance, repairs required and other data, to produce operating reports
- May prepare user guides and other public service information.

Employment requirements

- Completion of secondary school is required.
- Several years of experience in an appropriate transportation sector are usually required.
- On-the-job training may be provided.

Additional information

- Progression to supervisory positions is possible with experience.
- Mobility between occupations in this group is limited due to the requirement of specific transportation sector experience.

Classified elsewhere

- Flight schedulers managers (in 0713 *Transportation Managers*)
- Production schedule in manufacturing establishments (in 1473 *Production Clerks)*
- Scheduling technicians in manufacturing (in 2233 *Industrial Engineering and Manufacturing Technologists and Technicians*)
- Supervisors of traffic and crew schedules (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)

NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

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PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

211 Physical Science Professionals

2111 Physicists and Astronomers
2112 Chemists
2113 Geologists, Geochemists and Geophysicists
2114 Meteorologists
2115 Other Professional Occupations in Physical Sciences

212 Life Science Professionals

2121 Biologists and Related Scientists
2122 Forestry Professionals
2123 Agricultural Representatives, Consultants and Specialists

213 Civil, Mechanical, Electrical and Chemical Engineers

2131 Civil Engineers
2132 Mechanical Engineers
2133 Electrical and Electronics Engineers
2134 Chemical Engineers

214 Other Engineers

2141 Industrial and Manufacturing Engineers
2142 Metallurgical and Materials Engineers
2143 Mining Engineers
2144 Geological Engineers
2145 Petroleum Engineers
2146 Aerospace Engineers
2147 Computer Engineers (Except Software Engineers)
2148 Other Professional Engineers, n.e.c.

215 Architects, Urban Planners and Land Surveyors

2151 Architects
2152 Landscape Architects
2153 Urban and Land Use Planners
2154 Land Surveyors

216 Mathematicians, Statisticians and Actuaries

2161 Mathematicians, Statisticians and Actuaries

217 Computer and Information Systems Professionals

2171 Information Systems Analysts and Consultants
2172 Database Analysts and Data Administrators
2173 Software Engineers
2174 Computer Programmers and Interactive Media Developers
2175 Web Designers and Developers

Major Group 22

TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

221 Technical Occupations in Physical Sciences

2211 Chemical Technologists and Technicians
2212 Geological and Mineral Technologists and Technicians
2213 Meteorological Technicians

222 Technical Occupations in Life Sciences

2221 Biological Technologists and Technicians
2222 Agricultural and Fish Products Inspectors
2223 Forestry Technologists and Technicians
2224 Conservation and Fishery Officers
2225 Landscape and Horticultural Technicians and Specialists

223 Technical Occupations in Civil, Mechanical and Industrial Engineering

2231 Civil Engineering Technologists and Technicians
2232 Mechanical Engineering Technologists and Technicians
2233 Industrial Engineering and Manufacturing Technologists and Technicians
2234 Construction Estimators

224 Technical Occupations in Electronics and Electrical Engineering

2241 Electrical and Electronics Engineering Technologists and Technicians
2242 Electronic Service Technicians (Household and Business Equipment)
2243 Industrial Instrument Technicians and Mechanics
2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

225 Technical Occupations in Architecture, Drafting, Surveying and Mapping

2251 Architectural Technologists and Technicians
2252 Industrial Designers
2253 Drafting Technologists and Technicians
2254 Land Survey Technologists and Technicians
2255 Mapping and Related Technologists and Technicians

226 Other Technical Inspectors and Regulatory Officers

2261 Nondestructive Testers and Inspectors
2262 Engineering Inspectors and Regulatory Officers
2263 Inspectors in Public and Environmental Health and Occupational Health and Safety
2264 Construction Inspectors

227 Transportation Officers and Controllers

2271 Air Pilots, Flight Engineers and Flying Instructors
2272 Air Traffic Control and Related Occupations
2273 Deck Officers, Water Transport
2274 Engineer Officers, Water Transport
2275 Railway Traffic Controllers and Marine Traffic Regulators

228 Technical Occupations in Computer and Information Systems

2281 Computer and Network Operators and Web Technicians
2282 User Support Technicians
2283 Systems Testing Technicians

2111 Physicists and Astronomers

Physicists conduct theoretical and applied research to extend knowledge of natural phenomena and to develop new processes and devices in fields such as electronics, communications, power generation and distribution, aerodynamics, optics and lasers, remote sensing, and medicine and health. They are employed by electronic, electrical and aerospace manufacturing companies, telecommunications companies, power utilities, university and government research laboratories, hospitals and by a wide range of other processing, manufacturing, and research and consulting firms. Astronomers conduct observational and theoretical research to extend knowledge of the universe. They are employed by government and universities.

Examples of titles classified in this unit group

acoustics physicist
aerodynamicist
astronomer
astrophysicist
biophysicist
cosmologist
experimental physicist
health physicist
medical physicist
metrologist
nuclear physicist
optics physicist
plasma physicist
radio astronomer
research scientist, aerospace
research scientist, electronics
research scientist, physics
research scientist, remote sensing
solid state physicist

Main duties

Physicists perform some or all of the following duties:

- Design and conduct research in experimental and theoretical physics
- Carry out analysis of research data and prepare research reports
- Participate as a member of a research or development team in the design and development of experimental, industrial or medical equipment, instrumentation and procedures.

Physicists may specialize in fields such as aeronomy and space, acoustics, atomic and molecular physics, biophysics, condensed matter or solid state physics, electromagnetics, fluids and aerodynamics, health physics, medical physics, metrology, particle physics, optics and laser physics, nuclear physics and plasma physics.

Astronomers perform some or all of the following duties:

- Design and conduct observational surveys, conduct detailed analyses and develop numerical models to extend knowledge of celestial bodies and cosmic radiation
- Develop or participate in the development of instrumentation and software for astronomical observation and analysis.

Astronomers may specialize in fields such as astrophysics, observational or optical astronomy and radio astronomy.

Employment requirements

- Physicists require a master's or doctoral degree in a field of physics, engineering physics, or in a related discipline.
- Astronomers require a master's or doctoral degree in astronomy or in a related discipline.

Additional information

- Mobility between specializations within physics and within astronomy is possible with experience.
- Physicists may work closely with and perform some of the duties of engineers.
- Mobility is possible to the fields of meteorology, geophysics and other fields of science.

Classified elsewhere

- Atmospheric physicists (in 2114 *Meteorologists*)
- *Computer Engineers (Except Software Engineers)* (2147)
- Geophysicists and physical oceanographers (in 2113 *Geologists, Geochemists and Geophysicists*)

2112 Chemists

Chemists conduct research and analysis in support of industrial operations, product and process development, quality control, environmental control, medical diagnosis and treatment, biotechnology and other applications. They also conduct theoretical, experimental and applied research into basic chemical and biochemical processes to create or synthesize new products and processes. Chemists are employed in research, development and quality control laboratories; chemical, petrochemical and pharmaceutical industries; mineral, metal and pulp and paper industries as well as in a wide variety of manufacturing, utility, health, educational and government establishments.

Examples of titles classified in this unit group

agricultural chemist
analytical chemist
biochemist
chemist
clinical chemist
coatings chemist
electrochemist
environmental chemist
food chemist
inorganic chemist
nuclear magnetic resonance (NMR) spectroscopist
oceanographic chemist
organic chemist
organic mass spectrometrist
organometallic chemist
pharmacological chemist
physical chemist
polymer chemist
quality control chemist
research chemist
soil chemist
textile chemist
theoretical chemist

Main duties

Chemists perform some or all of the following duties:

- Analyze, synthesize, purify, modify and characterize chemical or biochemical compounds
- Develop and conduct programs of analysis to ensure quality control of raw materials, chemical intermediates or final products
- Conduct programs of sample and data collection and analysis to identify and quantify environmental toxicants
- Conduct research to develop new chemical formulations and processes and devise new technical applications of industrial chemicals and compounds
- Conduct fundamental and applied research into the synthesis and properties of chemical compounds and the mechanisms of chemical reactions
- Investigate chemical aspects of the mechanisms of drug action, the diagnosis and treatment of disease, organ function and the assessment of health
- Participate in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals
- Act as technical consultant in a particular field of expertise
- May supervise other chemists and chemical technicians and technologists.

Employment requirements

- A bachelor's degree in chemistry, biochemistry or in a related discipline is required.
- A master's or doctoral degree is usually required for employment as a research chemist.
- Licensing by a provincial association of chemists is compulsory in Quebec, and available but voluntary in Ontario and Alberta.

Additional information

- Mobility between occupations in this group is possible with experience.
- Mobility is possible to occupations concerned with plant management, technical sales and the development and management of regulatory programs and teaching professions.

Classified elsewhere

- *Chemical Engineers* (2134)
- Geochemists (in 2113 *Geologists, Geochemists and Geophysicists*)

- Metallurgists and material scientists (in 2115 *Other Professional Occupations in Physical Sciences*)
- Molecular Biologists (in 2121 *Biologists and Related Scientists*)

2113 Geologists, Geochemists and Geophysicists

Geologists, geochemists and geophysicists conduct programs of exploration and research to extend knowledge of the structure, composition and processes of the earth, to locate and identify hydrocarbon, mineral and groundwater resources, to plan and implement programs of hydrocarbon and mineral extraction and to assess and mitigate the effects of development and waste disposal projects on the environment. They are employed by petroleum and mining companies, consulting geology, geophysics and engineering firms and by governments and educational institutions or they may be self-employed.

Examples of titles classified in this unit group

development geologist
environmental geologist
exploration geologist
geochemist
geologist
geophysicist
glaciologist
groundwater geologist
hydrogeologist
hydrologist
mine geologist
mineralogist
oceanographer
paleontologist
petroleum geologist
petrologist
sedimentologist
seismologist
stratigrapher

Main duties

Geologists, geochemists and geophysicists perform some or all of the following duties:

- Conduct theoretical and applied research to extend knowledge of surface and subsurface features of the earth, its history and the operation of physical, chemical and biological systems that control its evolution
- Plan, direct and participate in geological, geochemical and geophysical field studies, drilling and geological testing programs
- Plan, direct and participate in seismic, electromagnetic, magnetic, gravimetric, radiometric, radar and other remote sensing programs
- Plan, direct and participate in the analysis of geological, geochemical and geophysical survey data, well logs and other test results, maps, notes and cross sections
- Develop applied software for the analysis and interpretation of data
- Plan, direct and participate in the analysis of core samples, drill cuttings and rock samples to identify chemical, mineral, hydrocarbon and biological composition and to assess depositional environments and geological age
- Assess the size, orientation and composition of mineral ore bodies and hydrocarbon deposits
- Identify deposits of construction materials and determine their characteristics and suitability for use as concrete aggregates, road fill or for other applications
- Assess the movement of ground and surface waters and advise in areas such as waste management, route and site selection and the restoration of contaminated sites
- Recommend the acquisition of lands, exploration and mapping programs and mine development
- Conduct geological and geophysical studies for regional development, site selection and the development of public works projects
- Identify and anticipate natural risks such as slope erosion, landslides, soil instability, subsidence, earthquakes and volcanic eruptions
- May supervise and co-ordinate well drilling, completion and work-overs and mining activities.

Geologists may specialize in the following fields: coal geology, environmental geology, geochronology, geomorphology or surficial geology, geotechnics, hydrogeology, marine geology, mineral deposits or mining, mineralogy, paleontology, petroleum geology, petrology, sedimentology, stratigraphy or biostratigraphy, structural geology or tectonics, volcanology or in other fields.

Geochemists may specialize in analytical geochemistry, hydrogeochemistry, mineral or petroleum geochemistry or in other fields.

Geophysicists may specialize in earth physics, oceanography, petroleum or in other fields.

Employment requirements

- A university degree in geology, geochemistry, geophysics or a related discipline is required.
- A master's or doctoral degree in geophysics, physics, mathematics or engineering may be required for employment as a geophysicist.
- Registration as a professional geologist or professional geophysicist by a provincial or territorial association of professional engineers or geologists and geophysicists is often required for employment and to practice in Newfoundland, Alberta, British Columbia and the Northwest Territories.
- Geologists and geophysicists are eligible for registration following graduation from an accredited educational program and after several years of supervised work experience and, in some provinces, after passing a professional practice examination.
- In some provinces or territories those who are not graduates of an accredited educational program are eligible for registration after completing a six- to eight-year term of supervised employment and successfully passing examinations.
- Supervisory and senior positions in this unit group require experience.

Additional information

- Mobility between specializations in this group is possible with experience.
- Advancement is possible to management positions in mining, petroleum and other industries.

Classified elsewhere

- *Chemists* (2112)
- *Geological Engineers* (2144)
- *Physicists and Astronomers* (2111)

2114 Meteorologists

Meteorologists analyze and forecast weather, provide consultation on atmospheric phenomena and conduct research into the processes and phenomena of weather, climate and atmosphere. They are employed by Environment Canada as well as by the military, private consulting companies, resource and utility companies and by provincial governments or they may be self-employed.

Examples of titles classified in this unit group

air quality meteorologist
atmospheric physicist
climatologist
hydrometeorologist
meteorologist
weather forecaster

Main duties

Meteorologists perform some or all of the following duties:

- Analyze and interpret data obtained from meteorological stations, radar and satellite imagery and computer model output
- Produce weather forecasts and provide weather consulting services for industries such as aviation, marine, agriculture and tourism, and to the general public
- Disseminate weather forecasts and reports to the general public through a variety of media including radio, television, print and the internet
- Conduct research and provide consultation on the processes and determinants of atmospheric phenomena, weather and climate, atmospheric dispersion, and physical and chemical transformation of pollutants
- Develop and test mathematical computer models of weather and climate for experimental or operational use
- Analyze the impact of industrial projects and human activity on the climate and quality of the air and work with the social science, engineering and economic communities to develop appropriate mitigation strategies
- Participate in studies of the effect of weather on the environment
- Provide consultation and advice to outside agencies, professionals, or researchers regarding the use and interpretation of climatological information
- Make scientific presentations, publish reports, articles or popular texts for specialists, users or the general public
- May engage in the design and development of new equipment and procedures for meteorological data collection, remote sensing, or for related applications.

Employment requirements

- A bachelor's or master's degree in meteorology, physics, mathematics or in a related field is required.
- A doctoral degree is usually required for employment as a research scientist in meteorology.
- Formal training of nine months is provided by Environment Canada for operational meteorologists.
- Membership in the Canadian Meteorological and Oceanographic Society or, in Quebec, in l'Association professionelle des météorologistes du Québec is available, but voluntary, for qualified meteorologists.

Classified elsewhere

- Announcers who broadcast weather forecasts (in 5231 *Announcers and Other Broadcasters*)
- *Meteorological Technicians* (2213)

2115 Other Professional Occupations in Physical Sciences

This group includes metallurgists, soil scientists and physical science occupations which are not elsewhere classified, and involve the conduct of theoretical and applied research in fields of physical science. They are employed by governments, educational institutions and a wide range of industrial establishments.

Examples of titles classified in this unit group

ballistics examiner
materials scientist
metallurgist
physical metallurgist
research scientist – ceramics
research scientist – composite materials
soil scientist

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Metallurgists conduct studies into the properties and production of metals and alloys.
- Soil scientists conduct research into the composition, distribution and evolution of soils.
- Materials scientists conduct research into the properties, composition and production of materials such as ceramics and composite materials.

Employment requirements

- A bachelor's degree in metallurgy, physics, chemistry, or a related physical science discipline is required.
- A master's or doctoral degree is usually required for employment as a research scientist.

Additional information

- Mobility between specializations in this group may be possible with experience.
- Mobility is possible to other fields of physical science or to management or regulatory program management with experience.

Classified elsewhere

- *Chemists* (2112)
- *Metallurgical and Materials Engineers* (2142)

2121 Biologists and Related Scientists

Biologists and related scientists conduct basic and applied research to extend knowledge of living organisms, to manage natural resources, and to develop new practices and products related to medicine and agriculture. They are employed in both laboratory and field settings by governments, environmental consulting companies, resource and utilities companies, chemical, pharmaceutical and biotechnical companies and health and educational institutions.

Examples of titles classified in this unit group

anatomist
bacteriologist
biologist
botanist
cell biologist
ecologist
embryologist
geneticist
histologist
immunologist
marine biologist
microbiologist
molecular biologist
parasitologist
pharmacologist
physiologist
protozoologist
toxicologist
virologist
zoologist

Main duties

Biologists perform some or all of the following duties:

- Plan and conduct studies of the environment, and the population, distribution, structure and functional characteristics and behaviour of plants and animals
- Conduct ecological and environmental impact studies and prepare reports
- Study, identify and classify plant and animal specimens
- Conduct experiments in plant or animal growth, heredity and breeding
- Prepare reports and plans for management of renewable resources
- May supervise biological technologists and technicians and other scientists.

Microbiologists and cell and molecular biologists perform some or all of the following duties:

- Conduct research into the structure, function, ecology, biotechnology and genetics of micro-organisms, including bacteria, fungi, protozoans, and algae
- Conduct research into the structure and functioning of human, animal and plant tissues and cells
- Conduct studies into the identification, effects and control of human, plant and animal pathogens and toxins
- Conduct clinical or laboratory studies to test, evaluate and screen drugs and pharmaceuticals
- Conduct molecular or biochemical studies and experiments into genetic expression, gene manipulation and recombinant DNA technology
- May supervise biological technologists and technicians and other scientists.

Biologists and related scientists may specialize at the macroscopic level, in fields such as botany, zoology, ecology and marine biology or, at the cellular and molecular level, in fields such as genetics, immunology, pharmacology, toxicology, physiology, pathology, bacteriology and virology.

Employment requirements

- A bachelor's degree in biology or in a related discipline is required for biologists.
- A master's or doctoral degree in biology or a related discipline is required for employment as a research scientist in biology.
- Post-doctoral research experience is usually required before employment in academic departments or research institutions.

Classified elsewhere

- Biochemists (in 2112 *Chemists*)
- Specialists in laboratory medicine (in 3111 *Specialist Physicians*)

2122 Forestry Professionals

Forestry professionals conduct research, develop plans and administer and direct programs related to the management and harvesting of forest resources. They are employed by the forest industry, provincial and federal governments, consulting companies, educational institutions and other industries, or they may be self-employed.

Examples of titles classified in this unit group

appraisal forester
consulting forester
district forester
forest engineer
forester
forestry superintendent
professional forester
regional inventory officer – forestry
registered professional forester (RPF)

Main duties

Forestry professionals perform some or all of the following duties:

- Plan and direct forest surveys and related studies and prepare reports and recommendations
- Establish short- and long-term plans for management of forest lands and forest resources
- Plan and direct woodlands harvesting, reforestation, silviculture and fire prevention and fire suppression programs, road building, wildlife management, environmental protection and insect and vegetation control programs
- Negotiate terms and conditions of agreements and contracts for forest harvesting, forest management and leasing of forest lands
- Monitor contract compliance and results of forestry activities
- Ensure adherence to government regulations and company objectives
- Plan and conduct public relations programs, and education and extension programs related to forestry
- Develop and oversee programs for tree seedling production and woodlands nursery operations
- Conduct advanced research in the areas of tree improvement, nursery seedling production, forest soils, forest ecology, forest mensuration, forest operations and other areas
- Provide advice and recommendations, as a consultant on forestry issues, to private woodlot owners, municipal, provincial or federal governments or to companies.

Employment requirements

- A bachelor's degree in forestry or forestry engineering is required.
- Certification as a forester or forest engineer by provincially chartered associations is required in provinces having such associations.
- A two-year practicum of supervised work experience and professional examinations are usually required before registration.
- Supervisory and senior occupations in this unit group require additional experience.

Additional information

- With experience, mobility is possible to management positions in government and industry.

Classified elsewhere

- Forest economists (in 4162 *Economists and Economic Policy Researchers and Analysts*)
- Forestry and woodlands operations managers (in 0811 *Primary Production Managers (Except Agriculture)*)
- Managers of government forestry policy and program administration (in 0412 *Government Managers – Economic Analysis, Policy Development and Program Administration*)
- Managers of research in forestry (in 0212 *Architecture and Science Managers*)

2123 Agricultural Representatives, Consultants and Specialists

Agricultural representatives, consultants and specialists provide assistance and advice to farmers on all aspects of farm management, cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They are employed by businesses, institutions and governments that assist the farming community or they may be self-employed.

Examples of titles classified in this unit group

agricultural consultant
agricultural extension supervisor
agricultural livestock specialist
agricultural representative
agricultural soil and crop specialist
agriculturist
agrologist
agronomist
consulting agrologist
crop specialist
farm management consultant
field service agent
grower's advisor
professional agrologist (P.AG.)

Main duties

Agricultural representatives, consultants and specialists perform some or all of the following duties:

- Provide counselling and advisory services to farmers on crop cultivation and fertilization, harvesting, animal and poultry care, disease prevention, farm management, farm financing, marketing and other agricultural subjects
- Prepare and conduct advisory information sessions and lectures for farmers and other groups
- Conduct research, analyze agricultural data and prepare research reports
- Liaise with researchers, educators and government or business managers on matters pertaining to farming and agriculture
- Maintain records of services provided and the effects of advice given.

Agricultural representatives, consultants and specialists may specialize in specific aspects of agriculture such as agricultural economics, animal science, environmental management, appraisal or extension and education, farm management, field crops, horticulture, irrigation or drainage, land use, and marketing and soil science.

Employment requirements

- A bachelor's or master's degree in agriculture or in a related science is required.
- Membership or eligibility for membership in a provincial institute of agrology is usually required.
- In Quebec, membership in the professional corporation for agrologists is mandatory.

Classified elsewhere

- Agricultural engineers (in 2148 *Other Professional Engineers, n.e.c.*)
- Agrology technologists and technicians (in 2221 *Biological Technologists and Technicians*)
- *Biologists and Related Scientists* (2121)
- *Landscape and Horticultural Technicians and Specialists* (2225)
- Managers of agricultural extension and consulting services (in 0212 *Architecture and Science Managers*)
- Managers responsible for agricultural economic policy (in 0412 *Government Managers – Economic Analysis, Policy Development and Program Administration*)

2131 Civil Engineers

Civil engineers plan, design, develop and manage projects for the construction or repair of buildings, earth structures, powerhouses, roads, airports, railways, rapid transit facilities, bridges, tunnels, canals, dams, ports and coastal installations and systems related to highway and transportation services, water distribution and sanitation. Civil engineers may also specialize in foundation analysis, building and structural inspection, surveying, geomatics and municipal planning. Civil engineers are employed by engineering consulting companies, in all levels of government, by construction firms and in many other industries, or they may be self-employed.

Examples of titles classified in this unit group

bridge engineer
civil engineer
construction engineer
environmental engineer
geodetic engineer
geomatics engineer
highway engineer
hydraulic engineer
municipal engineer
project engineer, construction
public works engineer
sanitation engineer
structural engineer
surveying engineer
traffic engineer
transportation engineer
water management engineer

Main duties

Civil engineers perform some or all of the following duties:

- Confer with clients and other members of the engineering team and conduct research to determine project requirements
- Plan and design major civil projects such as buildings, roads, bridges, dams, water and waste management systems and structural steel fabrications
- Develop construction specifications and procedures
- Evaluate and recommend appropriate building and construction materials
- Interpret, review and approve survey and civil design work
- Conduct field services for civil works
- Ensure construction plans meet guidelines and specifications of building codes and other regulations
- Establish and monitor construction work schedules
- Conduct feasibility studies, economic analyses, municipal and regional traffic studies, environmental impact studies or other investigations
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Conduct technical analyses of survey and field data for development of topographic, soil, hydrological or other information and prepare reports
- Act as project or site supervisor for land survey or construction work
- Prepare contract documents and review and evaluate tenders for construction projects
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

Employment requirements

- A bachelor's degree in civil engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

2131 Civil Engineers

Additional information

- There is considerable mobility between civil engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, urban planning, sales, marketing or management.

Classified elsewhere

- Chemical environmental engineers (in 2134 *Chemical Engineers*)
- *Construction Managers* (0711)
- *Engineering Managers* (0211)
- *Geological Engineers* (2144)
- *Transportation Managers* (0713)

2132 Mechanical Engineers

Mechanical engineers research, design and develop machinery and systems for heating, ventilating and air-conditioning, power generation, transportation, processing and manufacturing. They also perform duties related to the evaluation, installation, operation and maintenance of mechanical systems. Mechanical Engineers are employed by consulting firms, by power-generating utilities and in a wide range of manufacturing, processing and transportation industries, or they may be self-employed.

Examples of titles classified in this unit group

acoustics engineer
automotive engineer
design engineer – mechanical
energy conservation engineer
engineer, power generation
fluid mechanics engineer
heating, ventilation and air conditioning (HVAC) engineer
mechanical engineer
mechanical maintenance engineer
nuclear engineer
piping engineer
refrigeration engineer
robotics engineer
thermal design engineer
tool engineer

Main duties

Mechanical engineers perform some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems
- Plan and manage projects, and prepare material, cost and timing estimates, reports and design specifications for machinery and systems
- Design power plants, machines, components, tools, fixtures and equipment
- Analyze dynamics and vibrations of mechanical systems and structures
- Supervise and inspect the installation, modification and commissioning of mechanical systems at construction sites or in industrial facilities
- Develop maintenance standards, schedules and programs and provide guidance to industrial maintenance crews
- Investigate mechanical failures or unexpected maintenance problems
- Prepare contract documents and evaluate tenders for industrial construction or maintenance
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

Employment requirements

- A bachelor's degree in mechanical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- There is considerable mobility between mechanical engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering sales, marketing or management.
- Mechanical engineers work closely with civil electrical, aerospace, chemical, industrial and other engineers, and mobility is possible between some fields of specialization in these disciplines.

Classified elsewhere

- *Engineering Managers* (0211)
- *Industrial and Manufacturing Engineers* (2141)
- *Metallurgical and Materials Engineers* (2142)
- Power engineers or stationary engineers (in 7351 *Stationary Engineers and Auxiliary Equipment Operators*)

2133 Electrical and Electronics Engineers

Electrical and electronics engineers design, plan, research, evaluate and test electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and by a wide range of manufacturing, processing and transportation industries and government.

Examples of titles classified in this unit group

avionics engineer
control systems engineer
design engineer, electrical
distribution planning engineer, electrical engineer
electrical network engineer
electronics engineer
instrumentation and control engineer
planning engineer, electrical systems
process control engineer, electrical
roadway lighting design engineer
television systems engineer
test engineer, electronics

Main duties

Electrical and electronics engineers perform some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of electrical generation and distribution networks, electrical machinery and components and electronic communications, instrumentation and control systems, equipment, and components
- Prepare material cost and timing estimates, reports and design specifications for electrical and electronic systems and equipment
- Design electrical and electronic circuits, components, systems and equipment
- Supervise and inspect the installation, modification, testing and operation of electrical and electronic systems and equipment
- Develop maintenance and operating standards for electrical and electronic systems and equipment
- Investigate electrical or electronic failures
- Prepare contract documents and evaluate tenders for construction or maintenance
- Supervise technicians, technologists, programmers, analysts and other engineers.

Electrical and electronics engineers may specialize in a number of areas including electrical design for residential, commercial or industrial installations, electrical power generation and transmission, and instrumentation and control systems.

Employment requirements

- A bachelor's degree in electrical or electronics engineering or in an appropriate related engineering discipline is required.
- A master's or doctoral degree in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Engineering Managers* (0211)
- *Software Engineers* (2173)

2134 Chemical Engineers

Chemical engineers research, design, and develop chemical processes and equipment, oversee the operation and maintenance of industrial chemical, plastics, pharmaceutical, resource, pulp, and food processing plants and perform duties related to chemical quality control, environmental protection and biochemical or biotechnical engineering. Chemical engineers are employed in a wide range of manufacturing and processing industries, consulting firms, government, research and educational institutions.

Examples of titles classified in this unit group

adhesives engineer
biochemical engineer
biotechnical engineer
chemical engineer, environmental
chemical process engineer
industrial hygiene engineer
industrial waste treatment engineer
liquid fuels engineer
petrochemical engineer
polymer engineer
process control engineer, chemical
project engineer, chemical
pulp and paper engineer
refinery engineer
waste treatment engineer

Main duties

Chemical engineers perform some or all of the following duties:

- Conduct economic and technical feasibility studies in areas related to chemical, petroleum, pulp and paper, food or other processing industries
- Conduct research into the development or improvement of chemical engineering processes, reactions and materials
- Evaluate chemical process technology and equipment and determine production specifications
- Design and test chemical processing and associated plants and equipment
- Oversee the construction, modification, operation and maintenance of pilot plants, processing units or processing plants
- Establish and conduct quality control programs, operating procedures and control strategies to ensure consistency and adherence to standards for raw materials, products and waste products or emissions
- Prepare contract documents and evaluate tenders for the process aspects of industrial construction
- Supervise technicians, technologists and other engineers
- May work in an administrative capacity, for example, in the development of guidelines and specifications for the handling of dangerous chemicals, environmental protection, or standards for foods, materials and consumer goods.

Chemical engineers may specialize in the products and processes of a particular industry such as pulp and paper manufacturing, pharmaceuticals, petroleum refining, energy processing, plastics, metal extraction and refining, or adhesives and coatings production. They may also specialize in areas that are in various industries such as process control, pollution control or fermentation processes.

Employment requirements

- A bachelor's degree in chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and-passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

2134 Chemical Engineers

Additional information

- There is considerable mobility between chemical engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering sales, marketing or management.
- Chemical engineers work closely with chemists and other scientists and engineers and mobility is possible between some fields of specialization.

Classified elsewhere

- Agricultural and Biomedical engineers (in 2148 *Other Professional Engineers, n.e.c.*)
- *Chemists* (2112)
- Civil environmental engineers (in 2131 *Civil Engineers*)
- *Engineering Managers* (0211)
- *Metallurgical and Materials Engineers* (2142)
- *Petroleum Engineers* (2145)
- Process control engineers with electrical or electronic specialization (in 2133 *Electrical and Electronics Engineers*)

2141 Industrial and Manufacturing Engineers

Industrial and manufacturing engineers conduct studies, and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity. Industrial and manufacturing engineers are employed in consulting firms, manufacturing and processing companies, and in government, financial, health care and other institutions, or they may be self-employed.

Examples of titles classified in this unit group

engineer, computer integrated manufacturing (CIM)
fire prevention engineer
industrial engineer
manufacturing engineer
plant engineer
production engineer
quality control engineer
safety engineer
work measurement engineer

Main duties

Industrial and manufacturing engineers perform some or all of the following duties:

- Plan and design plant layouts and facilities
- Study new machinery and facilities and recommend or select efficient combinations
- Develop flexible or integrated manufacturing systems and procedures
- Conduct studies and implement program to determine optimum inventory levels for production and to allow optimum utilization of machinery, materials and resources
- Analyze costs of production
- Design, develop and conduct time studies and work simplification programs
- Determine human resource and skill requirements and develop training programs
- Develop performance standards, evaluation systems and wage and incentive programs
- Conduct studies of the reliability and performance of plant facilities, and production or administrative systems
- Develop maintenance standards, schedules and programs
- Establish programs and conduct studies to enhance industrial health and safety or to identify and correct fire and other hazards
- Evaluate or assess industrial facilities
- Supervise technicians, technologists, analysts, administrative staff and other engineers.

Employment requirements

- A bachelor's degree in industrial engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- Industrial engineers develop and implement organizational and management systems, and manufacturing engineers design production processes.
- There is considerable mobility between industrial engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, administration or management.

Classified elsewhere

- *Computer Engineers (Except Software Engineers)* (2147)
- *Engineering Managers* (0211)
- *Mechanical Engineers* (2132)
- *Metallurgical and Materials Engineers* (2142)
- Organizational analysts (in 1122 *Professional Occupations in Business Services to Management*)

2142 Metallurgical and Materials Engineers

Metallurgical and materials engineers conduct studies of the properties and characteristics of metals and other non-metallic materials and plan, design and develop machinery and processes to concentrate, extract, refine and process metals, alloys and other materials such as ceramics, semiconductors and composite materials. Metallurgical and materials engineers are employed in consulting engineering firms, mining, metal processing and manufacturing companies, and in government, research and educational institutions.

Examples of titles classified in this unit group

ceramics engineer
corrosion engineer
electrometallurgical engineer
foundry engineer
hydrometallurgical engineer
materials engineer
metallurgical engineer
physical metallurgical engineer
pyrometallurgical engineer
welding engineer

Main duties

Metallurgical and materials engineers perform some or all of the following duties:

- Conduct studies and design, develop and specify the processes, and machinery to concentrate, extract, refine and process metals from ores
- Conduct studies on the properties and characteristics of materials and design, develop and specify processes for moulding, shaping, forming and thermal treatment of metals, alloys and metallic systems, ceramics, semiconducting and other materials
- Conduct chemical and physical analytical studies, failure analyses and other studies and recommend material selection, design of materials, corrosion control measures, operational testing and other procedures
- Co-ordinate production testing and control of metal refining, smelting or foundry operations or non-metallic materials production operations
- Supervise technologists, technicians and other engineers and scientists.

Employment requirements

- A bachelor's degree in metallurgical, materials, ceramic or chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- Metallurgical engineers research and develop new alloys and systems for extracting metal from ores; materials engineers research and develop new non-metallic materials with physical characteristics to meet specific requirements.
- There is considerable mobility between engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2142 Metallurgical and Materials Engineers

- Metallurgical and materials engineers work closely with other engineers and scientists and mobility is possible between some fields of specialization.

Classified elsewhere

- *Chemical Engineers* (2134)
- *Chemists* (2112)
- *Engineering Managers* (0211)
- *Mechanical Engineers* (2142)
- *Mining Engineers* (2143)
- Physical metallurgists and materials scientists (in 2115 *Other Professional Occupations in Physical Sciences*)

2143 Mining Engineers

Mining engineers plan, design, organize and supervise the development of mines, mine facilities, systems and equipment; and prepare and supervise the extraction of metallic or non-metallic minerals and ores from underground or surface mines. Mining engineers are employed by mining companies, consulting engineering companies, manufacturers, government and in educational and research institutions.

Examples of titles classified in this unit group

mine design engineer
mine development engineer
mine layout engineer
mine production engineer
mine safety engineer
mine ventilation engineer
mineral engineer
mining engineer

Main duties

Mining engineers perform some or all of the following duties:

- Conduct preliminary surveys and studies of ore, mineral or coal deposits to assess the economic and environmental feasibility of potential mining operations
- Determine the appropriate means of safely and efficiently mining deposits
- Determine and advise on appropriate drilling and blasting methods for mining, construction or demolition
- Design shafts, ventilation systems, mine services, haulage systems and supporting structures
- Design, develop and implement computer applications such as for mine design, mine modelling, mapping or for monitoring mine conditions
- Plan and design or select mining equipment and machinery and mineral treatment machinery and equipment in collaboration with other engineering specialists
- Plan, organize and supervise the development of mines and mine structures and the operation and maintenance of mines
- Prepare operations and project estimates, schedules and reports
- Implement and co-ordinate mine safety programs
- Supervise and co-ordinate the work of technicians, technologists, survey personnel, and other engineers and scientists.

Employment requirements

- A bachelor's degree in mining engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Mining engineers work closely with geologists, geological engineers, metallurgical engineers, and other engineers and scientists, and mobility is possible between some fields of specialization.

2143 Mining Engineers

Classified elsewhere

- *Engineering Managers* (0211)
- *Geological Engineers* (2144)
- *Geologists, Geochemists and Geophysicists* (2113)
- *Metallurgical and Materials Engineers* (2142)
- Mine managers (in 0811 *Primary Production Managers (Except Agriculture)*)
- *Petroleum Engineers* (2145)

2144 Geological Engineers

Geological engineers conduct geological and geotechnical studies to assess suitability of locations for civil engineering, mining and oil and gas projects; and plan, design, develop and supervise programs of geological data acquisition and analysis and the preparation of geological engineering reports and recommendations. Geological engineers are employed in consulting engineering companies, electrical utilities, mining and petroleum companies and in government and research and educational institutions.

Examples of titles classified in this unit group

geological engineer
geophysical engineer
hydrogeological engineer

Main duties

Geological engineers perform some or all of the following duties:

- Plan, develop and co-ordinate programs of geotechnical, geological, geophysical or geohydrological data acquisition, analysis and mapping to assist in the development of civil engineering, mining, petroleum and waste management projects or for regional development
- Analyze and prepare recommendations and reports for construction or improvements to foundations of civil engineering projects such as rock excavation, pressure grouting and hydraulic channel erosion control
- Analyze and prepare recommendations and reports on settlement of buildings, stability of slopes and fills, and probable effects of landslides and earthquakes to support construction and civil engineering projects
- Conduct theoretical and applied study of groundwater flow and contamination and develop prescriptions for site selection, treatment and construction
- Plan, develop, co-ordinate and conduct theoretical and experimental studies in mining exploration, mine evaluation and feasibility studies relative to the mining industry
- Conduct surveys and studies of ore deposits, ore reserve calculations and mine design
- Design, develop and implement computer applications for geophysics, geochemistry, geology, mapping and related fields
- Supervise technologists, technicians and other engineers and scientists.

Employment requirements

- A bachelor's degree in geological engineering or in a related discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- There is considerable mobility between engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Geological engineers work closely with geologists and other scientists and engineers, and mobility is possible between some fields of specialization.

2144 Geological Engineers

Classified elsewhere

- *Civil Engineers* (2131)
- *Engineering Managers* (0211)
- *Geologists, Geochemists and Geophysicists* (2113)
- *Mining Engineers* (2143)
- *Petroleum Engineers* (2145)

2145 Petroleum Engineers

Petroleum engineers conduct studies for the exploration, development and extraction of oil and gas deposits; and plan, design, develop and supervise projects for the drilling, completion, testing and re-working of oil and gas wells. Petroleum engineers are employed by petroleum producing companies, consulting companies, well logging or testing companies and in government and research and educational institutions.

Examples of titles classified in this unit group

drilling engineer, oil and gas
petroleum engineer
petroleum engineer, completion
production engineer, oil and gas
reservoir engineer, petroleum
subsea engineer

Main duties

Petroleum engineers perform some or all of the following duties:

- Conduct feasibility assessment studies for developing new oil and gas fields
- Direct and monitor oil and gas drilling operations
- Develop drilling programs, select sites and specify drilling fluids, bit selection, drill stem testing procedures and equipment
- Direct and monitor the completion and evaluation of wells, well testing and well surveys
- Design and select artificial lift machinery, and well and surface production equipment and systems and specify programs for corrosion control and oil or gas treatment
- Develop specifications for and monitor and supervise well modification and stimulation programs to maximize oil and gas recovery
- Analyze reservoir rock and fluid data to design optimum recovery methods and to predict reservoir performance and reserves
- Monitor and forecast oil and gas reservoir performance and recommend oil recovery techniques which extend the economic life of wells
- Design, develop and co-ordinate the installation, maintenance and operation of subsea well-head and production equipment.

Petroleum engineers may specialize in drilling, production, reservoir analysis or subsea operations.

Employment requirements

- A bachelor's degree in petroleum engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- There is mobility between petroleum engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2145 Petroleum Engineers

Classified elsewhere

- *Chemical Engineers* (2134)
- *Engineering Managers* (0211)
- *Geological Engineers* (2144)
- *Geologists, Geochemists and Geophysicists* (2113)
- *Supervisors, Oil and Gas Drilling and Service* (8222)

2146 Aerospace Engineers

Aerospace engineers research, design and develop aerospace vehicles, aerospace systems and their components, and perform duties related to the testing, evaluation, installation, operation and maintenance. Aerospace engineers are employed by aircraft and spacecraft manufacturers, air transport carriers, and in government and educational and research institutions.

Examples of titles classified in this unit group

aerodynamics engineer
aeronautical engineer
aerospace engineer
aircraft design engineer
stress engineer, aerospace
structural engineer, aerospace
systems engineer, aerospace
test engineer, aerospace

Main duties

Aerospace engineers perform some or all of the following duties:

- Design and develop aerospace vehicles, systems and components such as aircraft, spacecraft, missiles, satellites and space-based communication systems
- Develop and conduct computer simulations of aerospace vehicles, systems and components using advanced mathematical modelling
- Prepare specifications for materials and processes to be used in aerospace manufacturing, maintenance, repair or modification
- Supervise and co-ordinate the manufacturing, assembly modification, repair and overhaul of aircraft and spacecraft
- Co-ordinate ground and flight tests of air and spacecraft
- Develop operational specifications, maintenance schedules and manuals for operators
- Develop the technical phases of logistical and operational support for aerospace vehicles and systems
- Investigate and report on structural or other component or system failures, accidents or incidents and prepare recommendations for corrective action.

Employment requirements

- A bachelor's degree in aerospace engineering or in a related engineering discipline, such as mechanical engineering or engineering physics, is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- There is considerable mobility between aerospace engineering specializations at the less senior levels.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Aerospace engineers work closely with other scientists and engineers and mobility is possible between some fields of specialization.

[illegible] Aerospace Engineers

Classified elsewhere

- Aircraft maintenance engineers (AME) (in 7315 *Aircraft Mechanics and Aircraft Inspectors*)
- Aircraft maintenance engineers (AME), avionics (in 2244 *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors*)
- Avionics engineers (in 2133 *Electrical and Electronic Engineers*)
- *Engineering Managers* (0211)
- *Mechanical Engineers* (2132)
- *Metallurgical and Materials Engineers* (2142)

2147 Computer Engineers (Except Software Engineers)

Computer engineers (except software engineers) research, plan, design, develop, modify, evaluate and integrate computer and telecommunications hardware and related equipment, and information and communication system networks including mainframe systems, local and wide area networks, fibre-optic networks, wireless communication networks, intranets, the internet and other data communications systems. They are employed by computer and telecommunication hardware manufacturers, by engineering, manufacturing and telecommunications firms, in information technology consulting firms, by governmental, educational and research institutions and in information technology units throughout the private and public sectors.

Examples of titles classified in this unit group

application specific integrated circuit (ASIC) design engineer
computer engineer
computer hardware engineer
engineer, computer hardware
engineer, telecommunications hardware
fibre-optic network designer
hardware circuit board designer
hardware design engineer
hardware development engineer
hardware engineer
network systems engineer
network test engineer
systems designer – hardware
technical architect – hardware
wireless communications network engineer

Main duties

Computer and telecommunications hardware engineers perform some or all of the following duties:

- Analyze user's requirements, and design and develop system architecture and specifications
- Research, design, develop and integrate computer and telecommunications hardware such as microprocessors, integrated circuit boards and semiconductor lasers
- Develop and conduct design verification simulations and prototype bench tests of components
- Supervise, inspect and provide design support during the manufacturing, installation and implementation of computer and telecommunications hardware
- Establish and maintain relationships with suppliers and clients
- May lead and co-ordinate teams of engineers, technologists, technicians and drafters in the design and development of computer and telecommunications hardware.

Network system and data communication engineers perform some or all of the following duties:

- Research, design and develop information and communication system network architecture
- Research, evaluate and integrate network system and data communication hardware and software
- Assess, document and optimize the capacity and performance of information and communication system networks
- May lead and co-ordinate teams of design professionals in the development and integration of information and communication system architecture, hardware and software.

Computer engineers may specialize in a number of areas including analog and digital signal processing, fibre optics, integrated circuits, lasers, microprocessors, microwaves and radio astronomy.

Employment requirements

- Computer engineers require a bachelor's degree in computer engineering, electrical or electronics engineering, engineering physics or computer science.
- A master's or doctoral degree in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.

- Supervisory and senior positions in this unit group require experience.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Electrical and Electronics Engineers* (2133)
- *Engineering Managers* (0211)
- *Information Systems Analysts and Consultants* (2171)
- *Software Engineers* (2173)
- *Web Designers and Developers* (2175)

2148 Other Professional Engineers, n.e.c.

This unit group includes agricultural and bio-resource engineers, biomedical engineers, engineering physicists and engineering scientists, marine and naval engineers, textile engineers and other specialized engineering occupations which are not classified elsewhere.

Examples of titles classified in this unit group

agricultural engineer
biomedical engineer
bio-resource engineer
engineering physicist
engineering scientist
food processing engineer
marine engineer
naval architect
naval engineer
textile engineer

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Agricultural and bio-resource engineers design and develop machinery, structures, equipment and systems related to agriculture and food processing.
- Biomedical engineers design and develop medical diagnostic and clinical instrumentation, equipment and procedures; develop devices to assist persons with disabilities; advise hospital administrators on planning, acquisition and use of medical equipment; and modify and install or supervise installation of equipment.
- Engineering physicists and engineering scientists conduct research, develop processes, programs and equipment to expand fundamental knowledge in the applied sciences and engineering and to support advanced engineering and scientific applications.
- Marine and naval engineers design and develop marine vessels and floating structures, and associated marine power plants, propulsion systems and related systems and equipment and oversee the building, maintenance and repair of vessels and marine systems.
- Textile engineers design and develop processes, equipment and procedures for the production of fibres, yarns and textiles.

Employment requirements

- A bachelor's degree in an appropriate engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports, and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Supervisory and senior positions in this unit group require experience.

Additional information

- There is limited mobility between the engineering specializations included in this unit group.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

Classified elsewhere

- Biochemical and biotechnical engineers (in 2134 *Chemical Engineers*)
- Marine engineer officers – water transport (in 2274 *Engineer Officers, Water Transport*)
- Physicists (in 2111 *Physicists and Astronomers*)

2151 Architects

Architects conceptualize, plan and develop designs for the construction and renovation of commercial, institutional and residential buildings. Architects are employed by architectural firms, private corporations and governments, or they may be self-employed.

Examples of titles classified in this unit group

architect
architectural standards specialist
chief architect
consulting architect
industrial and commercial buildings architect
residential architect

Main duties

Architects perform some or all of the following duties:

- Consult with clients to determine type, style and purpose of renovations or new building construction being considered
- Conceptualize and design buildings and develop plans describing design specifications, building materials, costs and construction schedules
- Prepare sketches and models for clients
- Prepare or supervise the preparation of drawings, specifications and other construction documents for use by contractors and tradespersons
- Prepare bidding documents, participate in contract negotiations and award construction contracts
- Monitor activities on construction sites to ensure compliance with specifications
- Conduct feasibility studies and financial analyses of building projects.

Architects may specialize in a particular type of construction such as residential, commercial, industrial or institutional.

Employment requirements

- A bachelor's degree from an accredited school of architecture

  or

  Completion of the syllabus of studies from the Royal Architectural Institute of Canada (RAIC) is required.
- A master's degree in architecture may be required.
- Completion of a three-year internship under the supervision of a registered architect is required.
- Completion of the architect registration examination is required.
- Registration with the provincial association of architects in the province of work is required.

Additional information

- Progression to senior positions, such as chief architect, is possible with experience.

Classified elsewhere

- *Architecture and Science Managers* (0212)
- Database architects (in 2172 *Database Analysts and Data Administrators*)
- *Landscape Architects* (2152)
- Naval architects (in 2148 *Other Professional Engineers, n.e.c.*)
- Software architects (in 2173 *Software Engineers*)
- Structural engineers (in 2131 *Civil Engineers*)
- Technical architects, hardware (in 2147 *Computer Engineers*)

2152 Landscape Architects

Landscape architects conceptualize landscape designs, develop contract documents and oversee the construction of landscape development for commercial projects, office complexes, parks, golf courses and residential development. They are employed by government environmental and development agencies, landscape consulting firms and by architectural and engineering firms, or they are self-employed.

Examples of titles classified in this unit group

architect, landscape
landscape architect
landscape planner

Main duties

Landscape architects perform some or all of the following duties:

- Confer with clients to determine design needs
- Survey and assess designated sites and develop designs taking into consideration landscape features, buildings, climate, future usage and other aspects
- Prepare or oversee the preparation of detailed drawings for sites, including features such as trees, shrubs, gardens, lighting, walkways, patios, decks, benches, fences, retaining walls and fountains
- Prepare or oversee preparation of site plans, reports, sketches, models, photographs, maps, land use studies and design plans
- Estimate costs, prepare specifications and evaluate tenders for landscape construction projects
- Conduct environmental design studies, including environmental assessment, planning and the preservation and re-creation of historical sites
- Conduct community and neighbourhood physical planning studies, participate in multidisciplinary urban design studies and prepare design guidelines
- May manage and supervise landscape construction work.

Employment requirements

- A bachelor's degree in landscape architecture is required.
- A master's degree in landscape architecture may be required.
- In Ontario and British Columbia, landscape architects require a two-year internship and the successful completion of a provincial registration exam.
- In the remaining provinces and territories, landscape architects usually require two years of landscape design experience and an interview by their respective provincial associations to receive association certification.

Classified elsewhere

- *Architects* (2151)
- *Landscape and Horticultural Technicians and Specialists* (2225)
- Landscape architecture managers (in 0212 *Architecture and Science Managers*)
- Landscape design contractors (in 8255 *Landscaping and Grounds Maintenance Contractors and Managers*)
- *Urban and Land Use Planners* (2153)

2153 Urban and Land Use Planners

Urban and land use planners develop plans and recommend policies for managing land use, physical facilities and associated services for urban and rural areas and remote regions. They are employed by all levels of government, land developers, engineering and other consulting companies or may work as private consultants.

Examples of titles classified in this unit group

city planner
community and urban planner
environment planner
land use planner
long range planner
municipal planner
park planner
planner
planning analyst
recreation planner
regional planner
urban planner

Main duties

Urban and land use planners perform some or all of the following duties:

- Compile and analyze data on demographic, economic, legal, political, cultural, sociological, physical and other factors affecting land use
- Confer with municipal, provincial and federal authorities, civic leaders, social scientists, lawyers, land developers, the public and special interest groups to formulate and develop land use or community plans
- Prepare and recommend land development concepts and plans for zoning, subdivisions, transportation, public utilities, community facilities, parks, agricultural and other land uses
- Prepare plans for environmental protection, such as wildlife preserves, national and provincial parks, and protection of watersheds
- Present plans to civic, rural and regional authorities and hold public meetings to present plans, proposals or planning studies to the general public and special interest groups
- Review and evaluate proposals for land use and development plans and prepare recommendations
- Process application for land development permits and administer land use plans and zoning by-laws
- Formulate long range objectives and policies relative to future land use and the protection of the environment
- Supervise and co-ordinate work of urban planning technicians and technologists.

Employment requirements

- A bachelor's degree in urban and regional planning, geography, architecture, engineering or a related discipline is required.
- A master's degree in one of these disciplines may be required.
- Membership in the Canadian Institute of Planners is usually required.
- Membership in a provincial planning institute may be required in some provinces.

Additional information

- Progression to management positions in planning is possible with experience.

Classified elsewhere

- *Architects* (2151)
- *Land Surveyors* (2154)

2154 Land Surveyors

Land surveyors plan, direct and conduct legal surveys to establish the location of real property boundaries, contours and other natural or human-made features, and prepare and maintain cross-sectional drawings, official plans, records and documents pertaining to these surveys. They are employed by federal, provincial and municipal governments, private sector land surveying establishments, real estate development, natural resource, engineering and construction firms, or they may be self-employed.

Examples of titles classified in this unit group

commissioned land surveyor
land surveyor
legal surveyor
professional land surveyor
property surveyor

Main duties

Land surveyors perform some or all of the following duties:

- Develop survey plans, methods and procedures for conducting legal surveys
- Plan, direct and supervise or conduct surveys to establish and mark legal boundaries of properties, parcels of lands, provincial and Canada Lands, aboriginal land claims, well-sites, mining claims, utility rights-of-way, roadways and highways
- Survey and lay out subdivisions for rural and urban development
- Determine precise locations using electronic distance measuring equipment and global positioning systems (GPS)
- Analyze, manage and display data using geographic information systems (GIS) and computer-aided design and drafting (CAD)
- Record all measurements and other information obtained during survey activities
- Prepare or supervise the preparation and compilation of all data, plans, charts, records and documents related to surveys of real property boundaries
- Certify and assume liability for surveys made to establish real property boundaries
- Advise, provide consultation and testify as an expert witness on matters related to legal surveys.

Employment requirements

- A bachelor's degree in geomatics engineering or survey engineering
  or
  A college diploma in survey science or geomatics technology with additional academic credits and successful completion of equivalent examinations set by a regional board of examiners for land surveyors is required.
- A one to three-year articling period is required.
- Successful completion of professional land surveyor examinations is required.
- A federal or provincial land surveyors license is required.

Additional information

- Federal statutes require a separate license from the Association of Canada Land Surveyors to survey areas such as national parks, aboriginal lands, offshore areas and northern territories.

Classified elsewhere

- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (in 2231 Civil *Engineering Technologists and Technicians*)
- Geomatics and survey engineers (in 2131 *Civil Engineers*)
- Hydrographic surveyors (in 2113 *Geologists, Geochemists and Geophysicists*)
- *Land Survey Technologists and Technicians* (2254)
- *Mapping and Related Technologists and Technicians* (2255)
- *Urban and Land Use Planners* (2153)

2161 Mathematicians, Statisticians and Actuaries

Mathematicians and statisticians research mathematical or statistical theories, and develop and apply mathematical or statistical techniques, for solving problems in such fields as science, engineering, business and social science. Actuaries apply mathematics, statistics, probability and risk theory to assess potential financial impacts of future events. Mathematicians, statisticians and actuaries are employed by universities, governments, bank and trust companies, insurance companies, pension benefit consulting firms, professional associations and science and engineering consulting firms.

Examples of titles classified in this unit group

actuary
biostatistician
consulting actuary
demographer
insurance actuary
mathematician
statistical analyst
statistician

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Mathematicians conduct research to extend mathematical knowledge in traditional areas of mathematics such as algebra, geometry, probability and logic and apply mathematical techniques to the solution of problems in scientific fields such as physical science, engineering, computer science or other fields such as operations research, business or management.
- Statisticians conduct research into the mathematical basis of the science of statistics, develop statistical methodology and advise on the practical application of statistical methodology. They also apply statistical theory and methods to provide information in scientific and other fields such as biological and agricultural science, business and economics, physical sciences and engineering, and the social sciences.
- Actuaries apply mathematical models to forecast and calculate the probable future costs of insurance and pension benefits. They design life, health, and property insurance policies, and calculate premiums, contributions and benefits for insurance policies, pension and superannuation plans. They may assist investment fund managers in portfolio asset allocation decisions and risk management. They also use these techniques to provide legal evidence on the value of future earnings.

Employment requirements

- Mathematicians and statisticians require a graduate degree in mathematics or statistics.
- Actuaries usually require post-secondary education in actuarial science, mathematics, statistics, economics, commerce or business administration.
- Actuaries are conferred fellowships through the Canadian Institute of Actuaries upon successful completion of professional examinations
  and
  Three years of work experience in the actuarial field as an actuarial assistant or in a related position.

Additional information

- With experience, actuaries may progress to managerial positions in consulting, insurance and finance. They may also be self-employed.

Classified elsewhere

- *Financial and Investment Analysts* (1112)
- *Financial Auditors and Accountants* (1111)
- *Other Financial Officers* (1114)

2171 Information Systems Analysts and Consultants

Information systems analysts and consultants conduct research, develop and implement information systems development plans, policies and procedures, and provide advice on a wide range of information systems issues. They are employed in information technology consulting firms and in information technology units throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

computer consultant
computer systems analyst
informatics consultant
informatics security analyst
information systems business analyst
information systems quality assurance analyst
IT (information technology) consultant
management information systems (MIS) analyst
systems auditor
systems consultant
systems security analyst

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Information systems business analysts and consultants confer with clients to identify and document requirements, conduct business and technical studies, design, develop and implement information systems business solutions, and provide advice on information systems strategy, policy, management and service delivery.
- Systems security analysts assess physical and technical security risks to data, software and hardware, and develop policies, procedures and contingency plans to minimize the effects of security breaches.
- Information systems quality assurance analysts develop and implement policies and procedures throughout the software development life cycle to maximize the efficiency, effectiveness and overall quality of software products and information systems.
- Systems auditors conduct independent third-party reviews to assess quality assurance practices, software products and information systems.

Employment requirements

- A bachelor's degree in computer science, computer systems engineering, software engineering, business administration or a related discipline
  or
  Completion of a college program in computer science is usually required.
- Experience as a computer programmer is usually required.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Database Analysts and Data Administrators* (2172)
- *Financial Auditors and Accountants* (1111)
- *Professional Occupations in Business Services to Management* (1122)
- *Software Engineers* (2173)
- *Web Designers and Developers* (2175)

2172 Database Analysts and Data Administrators

Database analysts design, develop and administer data management solutions using database management software. Data administrators develop and implement data administration policy, standards and models. They are employed in information technology consulting firms and in information technology units throughout the private and public sectors.

Examples of titles classified in this unit group

data administrator
data custodian
data dictionary administrator
data warehouse analyst
database administrator (DBA)
database analyst
database architect
technical architect – database

Main duties

Database analysts perform some or all of the following duties:

- Collect and document user's requirements
- Design and develop database architecture for information systems projects
- Design, construct, modify, implement and test data models and database management systems
- Conduct research and provide advice to other informatics professionals regarding the selection, application and implementation of database management tools
- Operate database management systems to analyze data.

Data administrators perform some or all of the following duties:

- Develop and implement data administration policy, standards and models
- Research and document data requirements, data collection and administration policy, and data access rules
- Develop policies and procedures for network access and usage and for the backup and recovery of data
- Conduct research and provide advice to other information systems professionals regarding the collection, availability and suitability of data
- May lead and co-ordinate teams of data administrators in the development and implementation of data policies, standards and models.

Employment requirements

- A bachelor's degree, usually in computer science, mathematics, commerce or business administration

  or

  Completion of a college program in computer science is usually required.
- Computer programming experience is usually required.

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Information Systems Analysts and Consultants* (2171)
- *Software Engineers* (2173)
- *Web Designers and Developers* (2175)

2173 Software Engineers

Software engineers research, design, evaluate, integrate and maintain software applications, technical environments, operating systems, embedded software, information warehouses and telecommunications software. They are employed in information technology consulting firms, information technology research and development firms and in information technology units throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

application architect
computer software engineer
embedded software engineer
software architect
software design engineer
software design verification engineer
software designer
software engineer
software testing engineer
systems intergration engineer – software
technical architect – software
telecommunications software engineer

Main duties

Software engineers perform some or all of the following duties:

- Collect and document user's requirements and develop logical and physical specifications
- Research, evaluate and synthesize technical information to design, develop and test computer-based systems
- Develop data, process and network models to optimize architecture and to evaluate the performance and reliability of designs
- Plan, design and co-ordinate the development, installation, integration and operation of computer-based systems
- Assess, troubleshoot, document, upgrade and develop maintenance procedures for operating systems, communications environments and applications software
- May lead and co-ordinate teams of information systems professionals in the development of software and integrated information systems, process control software and other embedded software control systems.

Employment requirements

- A bachelor's degree, usually in computer science, computer systems engineering, software engineering or mathematics

  or

  Completion of a college program in computer science is usually required.
- A master's doctoral or degree in a related discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.
- Experience as a computer programmer is usually required.

2173 Software Engineers

Classified elsewhere

- *Computer and Information Systems Managers* (0213)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Computer Programmers and Interactive Media Developers* (2174)
- Database Analysts and Data Administrators (2172)
- *Electrical and Electronics Engineers* (2133)
- *Information Systems Analysts and Consultants* (2171)
- *Systems Testing Technicians* (2283)
- *Web Designers and Developers* (2175)

2174 Computer Programmers and Interactive Media Developers

Computer programmers write, modify, integrate and test computer code for microcomputer and mainframe software applications, data processing applications, operating systems-level software and communications software. Interactive media developers write, modify, integrate and test computer code for internet applications, computer-based training software, computer games, film, video and other interactive media. They are employed in computer software development firms, information technology consulting firms and in information technology units throughout the private and public sectors.

Examples of titles classified in this unit group

application programmer
business application programmer
computer game developer
computer programmer
e-commerce (electronic commerce) software developer
interactive media developer
multimedia developer
operating systems programmer
programmer analyst
scientific programmer
software developer
software programmer
systems programmer
web programmer

Main duties

Computer programmers perform some or all of the following duties:

- Write, modify, integrate and test software code
- Maintain existing computer programs by making modifications as required
- Identify and communicate technical problems, processes and solutions
- Prepare reports, manuals and other documentation on the status, operation and maintenance of software
- Assist in the collection and documentation of user's requirements
- Assist in the development of logical and physical specifications
- Research and evaluate a variety of software products.

Interactive media developers perform some or all of the following duties:

- Program animation software to predefined specifications for interactive CDs, DVDs, video game cartridges and internet-based applications
- Program special effects software for film and video applications
- Write, modify, integrate and test software code for e-commerce and other internet applications
- Assist in the collection and documentation of user's requirements
- Assist in the development of logical and physical specifications
- Research and evaluate a variety of interactive media software products.

Employment requirements

- A bachelor's degree in computer science or in another discipline with a significant programming component

  or

  Completion of a college program in computer science is usually required.
- Specialization in programming for engineering and scientific applications requires specific post-secondary study or experience.

Additional information

- Progression to information systems analyst, software engineer or web designer is possible with experience.

Classified elsewhere

- *Computer and Network Operators and Web Technicians* (2281)
- *Database Analysts and Data Administrators* (2172)
- E-commerce managers (in 0611 *Sales, Marketing and Advertising Managers*)
- *Graphic Designers and Illustrating Artists* (5241)
- *Information Systems Analysts and Consultants* (2171)
- *Software Engineers* (2173)
- *Systems Testing Technicians* (2283)
- *Web Designers and Developers* (2175)

2175 Web Designers and Developers

Web designers and developers research, design, develop and produce internet and intranet sites. They are employed in computer software development firms, information technology consulting firms and in information technology units throughout the private and public sectors, or they may be self-employed.

Examples of titles classified in this unit group

e-commerce web site developer
internet site designer
internet site developer
intranet site designer
web designer
web developer
web manager
web site developer
webmaster

Main duties

Web designers and developers perform some or all of the following duties:

- Consult with clients to develop and document web site requirements
- Prepare mock-ups and storyboards
- Develop web site architecture and determine hardware and software requirements
- Source, select and organize information for inclusion and design the appearance, layout and flow of the web site
- Create and optimize content for web site using a variety of graphics, database, animation and other software
- Research and evaluate a variety of interactive media software products
- May lead and co-ordinate multidisciplinary teams to develop web site graphics, content, capacity and interactivity.

Employment requirements

- A bachelor's degree, usually in computer science, communications or business
  or
  Completion of a college program in computer science, graphic arts, web design or business is required.
- Experience as a computer programmer or graphic designer is usually required.

Classified elsewhere

- *Computer and Network Operators and Web Technicians* (2281)
- *Computer Programmers and Interactive Media Developers* (2174)
- E-commerce managers (in 0611 *Sales, Marketing and Advertising Managers*)
- *Graphic Designers and Illustrating Artists* (5241)
- *Information Systems Analysts and Consultants* (2171)
- Network systems engineers (in 2147 *Computer Engineers*)
- *Systems Testing Technicians* (2283)

2211 Chemical Technologists and Technicians

Chemical technologists and technicians provide technical support and services or may work independently in chemical engineering, chemical and biochemical research and analysis, industrial chemistry, chemical quality control and environmental protection. They are employed by research and development and quality control laboratories, consulting engineering companies, in chemical, petrochemical, pharmaceutical and a variety of other manufacturing and processing industries, and by utilities, health, education and government establishments.

Examples of titles classified in this unit group

analytical technician, chemical
biochemistry technologist
chemical analyst
chemical engineering technician
chemical engineering technologist
chemical laboratory analyst
chemical research technician
chemical technician
chemical technologist
food technologist
formulation technician
geochemical technician
industrial hygiene technologist
mass spectrometer technician
master dyer, textiles
paint technician
pilot plant technician
quality control technician – chemical processing
quality control technician – food processing

Main duties

Chemical technologists perform some or all of the following duties:

- Set up and conduct chemical experiments, tests and analyses using techniques such as chromatography, spectroscopy, physical and chemical separation techniques and microscopy
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas or liquid, reagents, and sample formulations
- Compile records and interpret experimental or analytical results
- Develop and conduct programs of sampling and analysis to maintain quality standards of raw materials, chemical intermediates and products
- Assist in the development of chemical engineering processes, studies of chemical engineering procurement, construction, inspection and maintenance and the development of standards, procedures and health and safety measures
- Operate experimental chemical or petrochemical pilot plants
- Conduct or assist in air and water quality testing and assessments, environmental monitoring and protection activities and in the development of and compliance with standards
- Assist in the design and fabrication of experimental apparatus.

Chemical technicians perform some or all of the following duties:

- Assist in setting up and conducting chemical experiments, tests and analyses
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas and liquid, reagents and sample formulations
- Compile records for analytical studies
- Assist in developing and conducting programs of sampling and analysis to maintain quality standards
- Carry out a limited range of other technical functions in support of chemical research, tests and analyses, and environmental air and water quality monitoring and protection
- Assist in the design and fabrication of experimental apparatus.

Employment requirements

- Chemical technologists usually require completion of a two- or three-year college program in chemical, biochemical or chemical engineering technology or a closely related discipline.
- Chemical technicians usually require completion of a one- or two-year college program in chemical, biochemical or chemical engineering technology.

- National certification for chemical technologists and technicians is available through the Canadian Society for Chemical Technology.
- Certification in chemical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.
- A period of supervised work experience, usually two years, is required before certification.

Additional information

- Considerable mobility is possible among jobs within this occupational group.
- Progression to managerial positions is possible with experience.
- Some chemical technologists and technicians working in support of fundamental research in chemistry or biochemistry are university graduates.

Classified elsewhere

- Biochemistry technologists working as medical laboratory technologists (in 3211 *Medical Laboratory Technologists and Pathologists' Assistants*)
- Process technicians who operate the controls of chemical or petrochemical processing plants (in 9232 *Petroleum, Gas and Chemical Process Operators*)

2212 Geological and Mineral Technologists and Technicians

Geological and mineral technologists and technicians provide technical support and services or may work independently in the fields of oil and gas exploration and production, geophysics, petroleum engineering, geology, mining and mining engineering, mineralogy, extractive and physical metallurgy, metallurgical engineering and environmental protection. They are employed by petroleum and mining companies, consulting geology and engineering firms, and by governments and educational institutions as well as by a variety of manufacturing, construction and utilities companies.

Examples of titles classified in this unit group

assayer
geological technician
geophysical technologist
groundwater technologist
log technician
marine geoscience technologist
metallurgical technologist
mineralogy technician
mining engineering technologist
mining technologist
petroleum engineering technologist
petroleum technician
petrology technician
reservoir engineering technician
rock mechanics technician
seismic technician
welding technologist

Main duties

Geological and mineral technologists perform some or all of the following duties:

- Conduct or direct geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs
- Operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Prepare, transcribe or analyze seismic, gravimetric, well log or other geophysical and survey data
- Assist engineers and geologists in the evaluation and analysis of petroleum and mineral reservoirs
- Prepare or supervise the preparation of rock, mineral or metal samples and perform physical and chemical laboratory tests
- Conduct or assist in environmental audits, in the design of measures to minimize undesirable environmental effects of new or expanded mining and oil and gas operations, and in the development of waste management and other related environmental protection procedures
- May supervise oil and gas well drilling, well completions and work-overs
- May conduct or supervise studies and programs related to mine development, mining methods, mine ventilation, lighting, drainage and ground control
- May assist engineers and metallurgists in specifying material selection, metal treatments or corrosion protection systems
- May assist hydrogeologists in evaluating groundwater and well circulation and in report preparation
- May develop specifications for heat treatment of metals or for welding, design welding fixtures, troubleshoot welding processes or quality problems and supervise welding projects.

Geological and mineral technicians perform some or all of the following duties:

- Participate in geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs and in environmental audits and related environmental protection activities
- Operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Assist in preparing, transcribing or analyzing seismic, gravimetric, well log or other geophysical and survey data

- Assist in the preparation of rock, mineral or metal samples and in conducting physical and chemical laboratory tests
- Assist in hydrogeological field and laboratory studies and in preparation of reports
- Carry out a limited range of other technical functions in support of geology, geophysics and petroleum and mining engineering.

Employment requirements

- Geological and mineral technologists usually require completion of a two- to three-year college program in geological technology, petroleum technology, petroleum engineering technology, hydrogeology or groundwater technology, mining technology, mining engineering technology, mineralogy, metallurgical technology, or welding technology.
- Geophysics technologists usually require completion of a two- to three-year college program in electronics technology.
- Geological and mineral technicians usually require completion of a one- to two-year college program in a related field.
- Certification in geological and mineral technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.
- A period of supervised work experience, usually two years, is required before certification.

Additional information

- There is limited mobility between occupations in this group.
- Mobility may be possible between geophysical technology and electronic technology.
- Mobility may be possible between some occupations in this group and related fields of civil engineering technology.

Classified elsewhere

- *Civil Engineering Technologists and Technicians* (2231)
- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Mapping and Related Technologists and Technicians* (2255)
- *Supervisors, Mining and Quarrying* (8221)
- *Supervisors, Oil and Gas Drilling and Service* (8222)
- Technologists and technicians whose primary duties are to perform chemical laboratory tests (in 2211 *Chemical Technologists and Technicians*)

2213 Meteorological Technicians

Meteorological technicians observe weather and atmospheric conditions, record and interpret meteorological data, transmit and report on recorded information, and provide meteorological information and advice to the general public, the transportation industry and the media. They are employed by the Atmospheric Environment Service of Environment Canada and by the armed forces, private consulting companies, resource and utility companies and by provincial governments.

Examples of titles classified in this unit group

aerological technician
avalanche controller
climate data processor
climate service specialist
climate service technician
ice service specialist
meteorological inspector
meteorological technician
officer-in-charge, weather station
operations technician, weather station
surface weather observer
weather service specialist

Main duties

Meteorological technicians perform some or all of the following duties:

- Observe, record and transmit atmospheric and weather information including air pressure, temperature, humidity, wind, precipitation, cloud and ultraviolet conditions
- Observe, chart and report on ice conditions in navigable waters
- Provide weather information to various users such as pilots, farmers, shipping industries and news media
- Inspect and service various weather service installations and maintain equipment and instruments
- Analyze and interpret weather data
- Maintain climatological databases and participate in the production of weather maps and charts
- Observe snow conditions and participate in programs to control avalanches in mountainous terrain.

Employment requirements

- Completion of secondary school is required.
- Completion of a meteorological technician program provided by the Atmospheric Environment Service is required.
- Initial training may be up to one year, with subsequent specialized training available.

Classified elsewhere

- *Meteorologists* (2114)

2221 Biological Technologists and Technicians

Biological technologists and technicians provide technical support and services to scientists, engineers and other professionals working in fields such as agriculture, resource management, environmental protection, plant and animal biology, microbiology, cell and molecular biology and health sciences, or may work independently in these fields. They are employed in both laboratory and field settings by governments, manufacturers of food products, chemicals and pharmaceuticals, biotechnology companies, health, research and educational institutions, environmental consulting companies and resource and utilities companies.

Examples of titles classified in this unit group

agricultural technician
agricultural technologist
agrology technician
aquaculture technician
bacteriology technician
biological laboratory technologist
botanical technician
fish hatchery technician
fisheries technician
food bacteriological technician
microbiology quality control technologist
microbiology technologist
plant breeding technician
seed technologist
wildlife biology technician

Main duties

Biological technologists perform some or all of the following duties:

- Conduct biological, microbiological and biochemical tests and laboratory analyses in support of quality control in food production, sanitation, pharmaceutical production and other fields
- Perform experimental procedures in agriculture, plant breeding, animal husbandry, biology and biomedical research
- Conduct field research and surveys to collect data and samples of water, soil, plant and animal populations
- Conduct environmental monitoring and compliance activities for the protection of fisheries stock, wildlife and other natural resources
- Analyze data and prepare reports
- Conduct or supervise operational programs such as fish hatchery, greenhouse and livestock production programs.

Biological technicians perform some or all of the following duties:

- Assist in conducting biological, microbiological and biochemical tests and laboratory analyses
- Perform limited range of technical functions in support of agriculture, plant breeding, animal husbandry, biology, biomedical research and environmental protection
- Assist in conducting field research and surveys to collect data and samples of water, soil, plant and animal populations
- Assist in analysis of data and preparation of reports.

Employment requirements

- Completion of a two- to three-year college program in a field related to agriculture, biology, microbiology, wildlife or resource management is usually required for employment as a biological technologist.
- Completion of a one- to two-year college program in a related field is required for employment as a biological technician.
- Certification with provincial associations is available, but voluntary.

Additional information

- There is limited mobility between occupations in this group.
- Some technologists and technicians working in support of government and academic research in biology are university graduates.

2221 Biological Technologists and Technicians

Classified elsewhere

- *Agricultural and Fish Products Inspectors* (2222)
- Biochemical engineering technologists (in 2241 *Electrical and Electronics Engineering Technologists and Technicians*)
- Biochemistry technologists and biochemistry laboratory technicians (in 2211 *Chemical Technologists and Technicians*)
- *Biologists and Related Scientists* (2121)
- *Conservation and Fishery Officers* (2224)
- *Forestry Technologists and Technicians* (2223)
- *Medical Laboratory Technicians* (3212)
- *Medical Laboratory Technologists and Pathologists' Assistants* (3211)

2222 Agricultural and Fish Products Inspectors

Agricultural and fish products inspectors inspect agricultural and fish products for conformity to prescribed production, storage and transportation standards. They are employed by government departments and agencies and by private sector food processing companies. Supervisors of agricultural and fish products inspectors are also included in this group.

Examples of titles classified in this unit group

agricultural products inspector
crop certification inspector
dairy products inspector
fish and fish products inspector
fruit and vegetables inspector
grain inspector
livestock inspector
plant protection inspector
poultry inspector
supervisor, agricultural products inspection
supervisor, fish products inspection

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Fish and fish products inspectors inspect fish, fish products, fish handling and processing methods and prepare reports and ensure that regulations are followed.
- Fruit and vegetables inspectors inspect fresh and frozen fruit and vegetables at inspection centres and prepare reports on crop production and market conditions.
- Grain inspectors inspect and grade all classes of grain at terminal elevators, monitor the fumigation of infested grain, and examine storage, handling and transportation equipment to ensure that sanitary procedures are followed.
- Meat inspectors monitor the operations and sanitary conditions of slaughtering and meat processing plants and inspect carcasses to ensure they are fit for consumption.
- Plant protection inspectors certify seed crops, oversee the quarantine, treatment or destruction of plants and plant products, and the fumigation of plants and plant product imports and exports.

Employment requirements

- Completion of secondary school is required.
- Government inspectors usually require a bachelor's degree or college diploma in agriculture, biology, chemistry, food processing technology or a related discipline.
- Inspectors (other than government) may require a bachelor's degree or college diploma in a related discipline.
- Several years of experience in agricultural production or fish processing are usually required.
- Completion of in-house training courses is required.

Additional information

- Progression to managerial positions in this field is possible with experience.

Classified elsewhere

- *Biological Technologists and Technicians* (2221)
- Fish graders and meat graders who perform routine quality control duties or tally landed fish (in 9465 *Testers and Graders, Food and Beverage Processing*)
- *Forestry Technologists and Technicians* (2223)
- *Inspectors in Public and Environmental Health and Occupational Health and Safety* (2263)

2223 Forestry Technologists and Technicians

Forestry technologists and technicians may work independently or perform technical and supervisory functions in support of forestry research, forest management, forest harvesting, forest resource conservation and environmental protection. They are employed by the forest industry sector, provincial and federal governments, consulting firms, and other industries and institutions or they may be self-employed.

Examples of titles classified in this unit group

conservation technician – forestry
cruising technician – forestry
enforcement officer – forestry
extension ranger – forestry
fire suppression officer – forestry
forest fire technician
forest survey technician
forest technician
forestry technician
forestry technologist
resource officer, forest inventory
resource technician – forestry
scaler technician – logging
scaling co-ordinator – logging
silviculture technician

Main duties

Forestry technologists and technicians perform some or all of the following duties:

- Conduct, supervise and participate in forest inventory cruises, surveys and field measurements following accepted scientific and operational procedures
- Assist and perform technical functions in the preparation of forest management and harvest plans using photogrammetric and mapping techniques and computerized information systems
- Assist in planning and supervise construction of access routes and forest roads
- Implement, supervise and perform technical functions in silvicultural operations involving site preparation, planting, and tending of tree crops
- Co-ordinate activities such as timber scaling, forest fire suppression, disease or insect control or pre-commercial thinning of forest stands
- Supervise and perform technical functions in forest harvesting operations
- Monitor activities of logging companies and contractors and enforce regulations such as those concerning environmental protection, resource utilization, fire safety and accident prevention
- Provide forestry education, advice and recommendations to woodlot owners, community organizations and the general public
- Develop and maintain computer databases
- Supervise forest tree nursery operations
- Provide technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys or experimental forestry and forest engineering research.

Employment requirements

- Completion of a one- to three-year college program in forestry technology or in a renewable resource program or forest ranger program is usually required.
- Certification by, or registration with, a provincial association as a forestry technologist or technician may be required.
- Certification or licensing as a scaler is required for some positions.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- Mobility may be possible to occupations in natural resource and wildlife management and in parks management.

Classified elsewhere

- *Biological Technologists and Technicians* (2221)
- *Conservation and Fishery Officers* (2224)
- Foresters and forest engineers (in 2122 *Forestry Professionals*)
- *Supervisors, Logging and Forestry* (8211)

2224 Conservation and Fishery Officers

Conservation and fishery officers enforce the federal and provincial regulations established for the protection of fish, wildlife and other natural resources and collect and relay information on resource management. They are employed by federal and provincial government departments.

Examples of titles classified in this unit group

conservation officer
fish and wildlife officer
fishery officer
forest ranger – wildlife management
game officer
game warden
natural resource officer
park ranger

Main duties

Conservation and fishery officers perform some or all of the following duties:

- Generate public awareness of fish and wildlife conservation and regulations
- Conduct patrols by truck, aircraft, boat, or on foot, to ensure compliance with the provincial and federal statutes relating to fish, wildlife and the environment
- Investigate complaints, arrest violators, prepare briefs and present evidence in court
- Issue licences, export documents and special permits and collect royalties assessed on fish, wildlife and timber resources
- Implement and supervise approved techniques in preventing or overcoming damage caused by wildlife
- Perform resource protection duties
- Gather resource data by making inventories of fish, collecting water samples and assisting biologists in scientific research
- Supervise or provide firearms safety training courses and trapper education courses.

Employment requirements

- Completion of a one- to three-year college program in renewable resources management is required.
- On-the-job training and courses related to law enforcement and resource management are provided.
- A class-5 driver's licence, pesticide applicator's licence and explosives licence may be required.

Additional information

- Progression to senior and supervisory positions is possible with experience.

Classified elsewhere

- *Biological Technologists and Technicians* (2221)
- Fish inspectors (in 2222 *Agricultural and Fish Products Inspectors*)
- *Forestry Technologists and Technicians* (2223)

2225 Landscape and Horticultural Technicians and Specialists

This unit group includes those who survey and assess landscapes; draw sketches and build models of landscape designs; construct and maintain gardens, parks, golf courses and other landscaped environments; advise clients on issues related to horticulture; breed, cultivate and study plants; and treat injured and diseased trees and plants. They are employed by landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses, municipal, provincial and national parks, or they may be self-employed.

Examples of titles classified in this unit group

arborist
golf course superintendent
greenskeeper
horticultural technician
horticulture specialist
horticulturist
hydroponics technician
landscape architectural technician
landscape gardener
landscape technician
landscaper
lawn care specialist
tree service technician

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Arborists and tree service technicians examine trees and shrubs to diagnose problems and disease, and apply various treatments such as pruning, spraying, repairing damaged areas and injecting with treatment solution.
- Golf course superintendents direct crews who maintain the health and appearance of golf courses and their surrounding landscapes, plant and move trees, and apply fertilizers, fungicides, herbicides and pesticides.
- Horticulturists plan and co-ordinate the growth and use of plants for landscaping, ornamental uses and other purposes.
- Landscape designers and landscape architectural technicians and technologists survey and assess sites, prepare drawings, sketches and reports and perform other duties to assist landscape architects in designing landscaped environments.
- Landscape gardeners plant and maintain private and public lawns and gardens.
- Landscapers plan and construct landscaped environments which may include trees, shrubberies, lawns, fences, decks, patios and other landscape structures.
- Lawn care specialists visit clients, assess the health of lawns, and apply fertilizer, pesticides and other lawn care products.

Employment requirements

- Completion of a university or college program in agronomy, arboriculture, horticulture, landscaping, landscape design or landscape technology is usually required.
- Experience as a landscape and grounds maintenance labourer may be required for golf course superintendents, landscape gardeners and landscapers.
- Completion of apprenticeship programs may be required for horticulturists, aboriculturists and landscape gardeners.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

2225 Landscape and Horticultural Technicians and Specialists

Classified elsewhere

- *Biological Technologists and Technicians* (2221)
- Botanists (in 2121 *Biologists and Related Scientists*)
- *Forestry Technologists and Technicians* (2223)
- *Landscape Architects* (2152)
- *Landscaping and Grounds Maintenance Contractors and Managers* (8255)
- *Nursery and Greenhouse Operators and Managers* (8254)
- *Nursery and Greenhouse Workers* (8432)
- *Supervisors, Landscape and Horticulture* (8256)

2231 Civil Engineering Technologists and Technicians

Civil engineering technologists and technicians provide technical support and services to scientists, engineers and other professionals, or may work independently in fields such as structural engineering, municipal engineering, construction design and supervision, highways and transportation engineering, water resources engineering, geotechnical engineering and environmental protection. They are employed by consulting engineering and construction companies, public works, transportation and other government departments and in many other industries.

Examples of titles classified in this unit group

bridge design technician
building materials technician
civil engineering technician
civil engineering technologist
construction technologist
foundation technologist
highway technician
municipal engineering assistant
soil technologist – civil engineering
specifications writer, construction
structural design technologist
structural investigator

Main duties

Civil engineering technologists perform some or all of the following duties:

- Develop engineering designs and drawings from preliminary concepts and sketches
- Prepare construction specifications, cost and material estimates, project schedules and reports
- Supervise or conduct field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Conduct or supervise inspection and testing of construction materials
- May supervise, monitor and inspect construction projects.

Civil engineering technicians perform some or all of the following duties:

- Assist in developing engineering specifications and drawings
- Participate in field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Perform other technical functions in support of civil engineering activities.

Employment requirements

- Completion of a two- or three-year college program in civil engineering technology or a closely related discipline is usually required for civil engineering technologists.
- Completion of a one- or two-year college program in civil engineering technology is usually required for civil engineering technicians.
- Certification in civil engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- There is mobility to related occupations, such as drafting technologists and technicians and construction inspectors and estimators.
- Progression to construction supervisors or construction managers is possible with experience.

2231 Civil Engineering Technologists and Technicians

Classified elsewhere

- *Architectural Technologists and Technicians* (2251)
- *Construction Estimators* (2234)
- *Construction Inspectors* (2264)
- *Construction Managers* (0711)
- *Drafting Technologists and Technicians* (2253)
- *Land Survey Technologists and Technicians* (2254)

2232 Mechanical Engineering Technologists and Technicians

Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments.

Examples of titles classified in this unit group

aeronautical technologist
heating designer
HVAC (heating, ventilating & air conditioning) technologist
machine designer
marine engineering technologist
mechanical engineering technician
mechanical engineering technologist
mechanical technologist
mould designer
thermal station technician
tool and die designer
tool designer

Main duties

Mechanical engineering technologists perform some or all of the following duties:

- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components, power transmission systems, process piping, heating, ventilating and air-conditioning systems
- Prepare cost and material estimates, project schedules and reports
- Conduct tests and analyses of machines, components and materials to determine their performance, strength, response to stress and other characteristics
- Design moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Inspect mechanical installations and construction
- Prepare contract and tender documents
- Supervise, monitor and inspect mechanical installations and construction projects
- Prepare standards and schedules and supervise mechanical maintenance programs or operations of mechanical plants.

Mechanical engineering technicians perform some or all of the following duties:

- Assist in preparing conventional and computer-assisted design (CAD) engineering designs, drawings and specifications
- Carry out a limited range of mechanical tests and analyses of machines, components and materials
- Assist in the design of moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Assist in inspection of mechanical installations and construction projects
- Participate in the installation, repair and maintenance of machinery and equipment.

Employment requirements

- Completion of a two- or three-year college program in mechanical engineering technology is usually required for mechanical engineering technologists.
- Completion of a one- or two-year college program in mechanical engineering technology is usually required for mechanical engineering technicians.
- Certification in mechanical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- There is mobility to other related occupations such as technical sales or drafting technologists and technicians.
- Progression to supervisory occupations such as mechanical construction supervisor, manufacturing supervisor or operations maintenance manager is possible with experience.

Classified elsewhere

- *Contractors and Supervisors, Trades and Related Workers* (721)
- *Drafting Technologists and Technicians* (2253)
- *Industrial Designers* (2252)
- *Managers in Manufacturing and Utilities* (091)
- *Technical Sales Specialists – Wholesale Trade* (6221)

2233 Industrial Engineering and Manufacturing Technologists and Technicians

Industrial engineering and manufacturing technologists and technicians may work independently or provide technical support and services in the development of production methods, facilities and systems, and the planning, estimating, measuring and scheduling of work. They are employed by manufacturing and insurance companies, government departments and in other industries.

Examples of titles classified in this unit group

CAD-CAM programmer
industrial engineering technician
industrial engineering technologist
loss prevention technologist
manufacturing technician
manufacturing technologist
planning technician
plastics manufacturing technician
pulp and paper manufacturing technologist
quality assurance technologist
scheduling technician, manufacturing
textile technologist
time study analyst

Main duties

Industrial engineering and manufacturing technologists perform some or all of the following duties:

- Develop and conduct production, inventory and quality assurance programs in manufacturing or in other industries
- Design plant layouts and production facilities
- Develop and carry out work study and related programs
- Develop and carry out industrial health, safety and fire prevention plans and programs and conduct safety training programs
- Develop applications using CAD-CAM (computer-assisted drafting, computer-assisted manufacturing) for the control of robots, computer numerical control (CNC) machines and other manufacturing processes and operations.

Industrial engineering and manufacturing technicians perform some or all of the following duties:

- Assist in the design of plant layouts
- Conduct work measurement or other studies
- Collect and compile operational or experimental data and assist in the development of estimates, schedules, specifications and reports
- Collect and analyze data and samples in support of quality assurance and industrial health and safety programs
- Develop manufacturing and processing procedures and variables, set machine or equipment controls, oversee production and inspect processes.

Technologists and technicians in this unit group may specialize in the development of production processes, quality assurance programs, plans and schedules in a particular industrial area such as metal fabrication, plastics, pulp and paper, or textile manufacturing.

Employment requirements

- Completion of a two- or three-year college program or equivalent in industrial engineering technology, pulp and paper technology, plastics technology, textile technology, manufacturing technology or in a related discipline is usually required for industrial engineering or manufacturing technologists.
- Completion of a one- or two-year college program in industrial engineering technology or in a related discipline is usually required for industrial engineering or manufacturing technicians.
- Certification in industrial engineering or manufacturing technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- A college diploma in manufacturing technology and/or trade certification and experience in machining and tooling or metalworking is required for CAD-CAM/CNC programmers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

2233 Industrial Engineering and Manufacturing Technologists and Technicians

Additional information

- There is mobility to related fields such as technical sales.
- Progression to managerial positions is possible with experience.

Classified elsewhere

- CNC machine operators (in 951 *Machining, Metalworking, Woodworking and Related Machine Operators*)
- *Machinists and Related Occupations* (723)
- *Technical Sales Specialists – Wholesale Trade* (6221)
- Textile technologists/technicians working in support of chemical dyeing and finishing and quality control technologists/technicians in food or chemical industries or laboratories (in 2211 *Chemical Technologists and Technicians*)

2234 Construction Estimators

Construction estimators analyze costs of and prepare estimates on civil engineering, architectural, structural, electrical and mechanical construction projects. They are employed by residential, commercial and industrial construction companies and major electrical, mechanical and trade contractors, or they may be self-employed.

Examples of titles classified in this unit group

chief estimator – construction
construction estimator
cost estimator – construction
principal estimator – construction
professional quantity surveyor
quantity surveyor – construction

Main duties

Construction estimators perform some or all of the following duties:

- Prepare estimates of probable costs of materials, labour and equipment for construction projects based on contract bids, quotations, schematic drawings and specifications
- Advise on tendering procedures, examine and analyze tenders, recommend tender awards and conduct negotiations
- Establish and maintain tendering process and set up cost monitoring and reporting systems and procedures
- Prepare cost and expenditure statements and forecasts at regular intervals for the duration of a project
- Prepare and maintain a directory of suppliers, contractors and subcontractors
- Liaise, consult and communicate with engineers, architects, owners, contractors and subcontractors, and prepare economic feasibility studies on changes and adjustments to cost estimates
- Manage and co-ordinate construction projects and prepare construction progress schedules.

Estimators may specialize in estimating costs for structural, electrical or mechanical construction projects.

Employment requirements

- Completion of secondary school is required
- Completion of a three-year college program in civil or construction engineering technology
  or
  Several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are required.
- Certification by the Canadian Institute of Quantity Surveyors is usually required.

Additional information

- Progression to more senior positions in this unit group, such as senior estimator or to construction management positions is possible with experience.

Classified elsewhere

- *Architectural Technologists and Technicians* (2251)
- *Civil Engineers* (2131)
- *Civil Engineering Technologists and Technicians* (2231)
- *Construction Managers* (0711)

2241 Electrical and Electronics Engineering Technologists and Technicians

Electrical and electronics engineering technologists and technicians may work independently or provide technical support and services in the design, development, testing, production and operation of electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and in governments and a wide range of manufacturing, processing and transportation industries.

Examples of titles classified in this unit group

communications technologist
electrical engineering technician
electrical engineering technologist
electricity distribution network technologist
electronics design technologist
electronics engineering technician
electronics engineering technologist
electronics manufacturing technician
electronics manufacturing technologist
lighting technologist
metering technologist
microwave maintenance technician
production support technician – electronics manufacturing

Main duties

Electrical and electronics engineering technologists perform some or all of the following duties:

- Design, develop and test power equipment and systems, industrial process control systems, telecommunication, broadcast, recording and audiovisual systems, micro-electronic systems and circuits, computers, computer systems and networks, and computer software
- Supervise the building and testing of prototypes according to general instructions and established standards
- Conduct or supervise the installation, commissioning, and operation of electrical and electronic equipment and systems other than aircraft electronics or instruments
- Carry out applied research in fields of electrical and electronic engineering and physics under the direction of scientists or engineers
- Set up and operate specialized and standard test equipment to diagnose, test and analyze the performance of electrical and electronic components, assemblies and systems
- Write specifications, schedules and technical reports and control schedules and budgets.

Electrical and electronics engineering technicians perform some or all of the following duties:

- Assist in the design, development and testing of electrical and electronic components, equipment, and systems
- Assist in inspection, testing, adjusting and evaluation of incoming electrical, electro-mechanical and electronic components and assemblies to ensure conformance with product specifications and tolerances
- Conduct life tests (burn-ins) on assemblies and record and analyze results
- Assist in building and testing prototypes to specifications
- Carry out a limited range of technical functions in support of research in electrical and electronic engineering and physics
- Install, operate and maintain electrical and electronic equipment and systems
- Calibrate electrical or electronic equipment and instruments according to technical manuals and written instructions
- Collect and compile operational or experimental data and assist in the preparation of estimates, schedules, budgets, specifications and reports.

Employment requirements

- Completion of a two- or three-year college program in electrical or electronics engineering technology, computer engineering technology, telecommunications technology or an equivalent is usually required for electrical or electronics engineering technologists.
- Completion of a one- or two-year college program in electrical or electronics engineering technology is usually required for electrical or electronics engineering technicians.

2241 Electrical and Electronics Engineering Technologists and Technicians

- Certification in electrical or electronics engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- There is mobility to other related occupations such as technical sales, electronics service technicians, instrument technicians and avionics technicians.
- Progression to managerial positions in engineering, production or operations is possible with experience.

Classified elsewhere

- *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors* (2244)
- *Electronic Service Technicians (Household and Business Equipment)* (2242)
- *Industrial Instrument Technicians and Mechanics* (2243)
- *Technical Sales Specialists – Wholesale Trade* (6221)

2242 Electronic Service Technicians (Household and Business Equipment)

Electronic service technicians service and repair household and business electronic equipment such as audio and video systems, computers and peripherals, office equipment and other consumer electronic equipment and assemblies. They are employed by electronic service and retail establishments, by wholesale distributors and within service departments of electronic manufacturing companies.

Examples of titles classified in this unit group

alarm system technician
audio-video service technician
computer service technician
electronic service technicians supervisor
electronics service technician apprentice
field service technician, electronic products
office equipment service technician
photocopy machine technician
radio and television service technician
satellite antenna servicer

Main duties

Electronic service technicians perform some or all of the following duties:

- Install, maintain and repair household and business electronic equipment, such as televisions, radios, video cassette recorders, stereo equipment, photocopiers, computers and peripherals
- Inspect and test electronic equipment, components and assemblies using multimeters, circuit testers, oscilloscopes, logic probes and other electronic test instruments, tools and equipment
- Diagnose and locate circuit, component and equipment faults
- Adjust, align, replace or repair electronic equipment, assemblies and components following equipment manuals and schematics, and using soldering tools and other hand and power tools
- Complete work orders, test and maintenance reports
- May supervise other electronic equipment service technicians.

Employment requirements

- Completion of a two- to three-year college program in electronics
  or
  Completion of a four-year apprenticeship program in electronic servicing and repair
  or
  Completion of high school or college courses in electronics and on-the-job training is required.
- Trade certification for electronic technician, consumer products is compulsory in Alberta and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified electronics technicians, consumer products.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- Red Seal trade certification allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Telecommunications Installation and Repair Workers* (7246)

2243 Industrial Instrument Technicians and Mechanics

Industrial instrument technicians and mechanics repair, maintain, calibrate, adjust, and install industrial measuring and controlling instrumentation. They are employed by pulp and paper processing companies, nuclear and hydro power generating companies, mining, petrochemical and natural gas companies, industrial instrument and other manufacturing companies, and by industrial instrument servicing establishments.

Examples of titles classified in this unit group

apprentice industrial instrument mechanic
industrial instrument mechanic
instrument technician, industrial
instrumentation technician, industrial
process control equipment mechanic

Main duties

Industrial instrument technicians and mechanics perform some or all of the following duties:

- Consult manufacturer's manuals, circuit diagrams and blueprints to determine tests and maintenance procedures for instruments used for measuring and controlling flow, level, pressure, temperature, chemical composition and other variables in manufacturing and processing
- Inspect and test operation of instruments and systems to diagnose faults using pneumatic, electrical and electronic testing devices and precision measuring instruments
- Repair and adjust system components, such as sensors, transmitters and programmable logic controllers, or remove and replace defective parts
- Calibrate components and instruments according to manufacturers' specifications
- Perform scheduled preventive maintenance work and complete test and maintenance reports
- Install control and measurement instruments on existing and new plant equipment and processes
- Consult with and advise process operators.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four or five-year apprenticeship program in industrial instrument repair
  or
  Completion of a two-year college program in industrial instrumentation technology and several years of work experience are usually required for trade certification.
- Industrial instrument mechanic trade certification is available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified industrial instrument mechanics.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- Red Seal trade certification allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Aircraft instrument technicians (in 2244 *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors*)
- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- Industrial mechanics (in 7311 *Construction Millwrights and Industrial Mechanics (Except Textile)*)

2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

This unit group includes mechanics and technicians who install, adjust, repair and overhaul aircraft instrument, electrical or avionics systems on aircraft. This unit group also includes avionics inspectors who inspect instrument, electrical and avionics systems following assembly, modification, repair or overhaul. Workers in this unit group are employed by aircraft manufacturing, maintenance, repair and overhaul establishments and by airlines, the armed forces and other aircraft operators.

Examples of titles classified in this unit group

aircraft electrical technician
aircraft electrician
aircraft instrument mechanic
aircraft maintenance engineer (AME) – avionics
avionics technician
inspector, avionics
instrument inspector, aircraft
instrument overhaul and repair mechanic – avionics

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Aircraft instrument mechanics and technicians repair and overhaul, install, calibrate and test aircraft instruments.
- Aircraft electrical mechanics and technicians repair and overhaul, modify, install and test aircraft electrical systems and equipment
- Avionics mechanics and technicians. troubleshoot, repair and overhaul, test, modify, install and inspect aircraft electronic systems and components including communications, navigation, and autoflight equipment.
- Avionics inspectors inspect and test aircraft instrument, electrical and avionics systems and ensure that the installation, maintenance, repair and overhaul of these systems meet Transport Canada and company standards of performance and safety.

Aircraft mechanics and technicians who work in repair and overhaul shops service and test electrical, electronic and instrument components.

Avionics mechanics and technicians who work in maintenance hangars troubleshoot, repair, install and inspect aircraft systems and components.

Employment requirements

- Aircraft instrument and avionics mechanics and technicians require completion of a two- to three-year college program in avionics or electronics.
- Aircraft electrical mechanics and technicians require completion of a college program as an electrical or electronic technician.
- Four years of on-the-job or company apprenticeship training is required for all mechanics and technicians in this unit group.
- Avionics inspectors require completion of a two- to three-year college program in avionics or electronics, and three to five years of experience as an avionics mechanic or technician.
- Avionics inspectors, mechanics and technicians who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence (category E – avionics) issued by Transport Canada.
- Industry certification is available from the Canadian Aviation Maintenance Council for some occupations in this unit group.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

Additional information

- Avionics inspectors, maintenance technicians and mechanics may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and avionics systems.
- An AME licence can be obtained by fulfilling the education and training requirements as stated above and passing Transport Canada AME examinations.
- Progression to supervisory positions within specific areas of expertise is possible with experience.

Classified elsewhere

- *Aircraft Assemblers and Aircraft Assembly Inspectors* (9481)
- Aircraft mechanics and maintenance engineers who maintain and inspect aircraft structures, mechanical, hydraulic or propulsion systems (in 7315 *Aircraft Mechanics and Aircraft Inspectors*)
- Airworthiness inspectors – government (in 2262 *Engineering Inspectors and Regulatory Officers*)
- *Electrical Mechanics* (7333)
- *Industrial Instrument Technicians and Mechanics* (2243)

2251 Architectural Technologists and Technicians

Architectural technologists and technicians may work independently or provide technical assistance to professional architects and civil design engineers in conducting research, preparing drawings, architectural models, specifications and contracts and in supervising construction projects. Architectural technologists and technicians are employed by architectural and construction firms, and governments.

Examples of titles classified in this unit group

architectural design technician
architectural design technologist
architectural technician
architectural technologist

Main duties

Architectural technologists and technicians perform some or all of the following duties:

- Assist in the development of architectural designs
- Analyze building codes, by-laws, space requirements, site requirements and other technical documents and reports
- Prepare manual and CAD (computer-assisted design) drawings, specifications, cost estimates and listings of quantities of material from conceptual drawings and instructions
- Construct architectural and display models, and 3-D virtual models of architectural designs
- Prepare contract and bidding documents
- May supervise drafters, technicians and technologists on the architectural team
- May supervise construction projects and co-ordinate, monitor and inspect work done by others.

Employment requirements

- Completion of a two- to three-year college program in architectural technology or a related subject is usually required.
- Certification in architectural technology or in a related field through provincial associations of architectural or engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- There is mobility to other related occupations such as drafters, civil engineering technologists and technicians, construction estimators and construction inspectors.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Architects* (2151)
- *Civil Engineering Technologists and Technicians* (2231)
- *Construction Estimators* (2234)
- *Construction Inspectors* (2264)
- *Construction Managers* (0711)
- *Drafting Technologists and Technicians* (2253)
- *Land Survey Technologists and Technicians* (2254)

2252 Industrial Designers

Industrial designers conceptualize and produce designs for manufactured products. They are employed by manufacturing industries and private design firms or they may be self-employed.

Examples of titles classified in this unit group

furniture designer
industrial design consultant
industrial designer
industrial products designer
product designer

Main duties

Industrial designers perform some or all of the following duties:

- Consult with client, engineers or production specialists to establish product requirements
- Analyze the intended use of product and user preferences
- Conduct research into cost, properties of production materials and methods of production
- Prepare design concepts, sketches or models for approval
- Prepare manufacturing drawings, specifications and guidelines for production and construct prototype of design
- Consult with engineers and production staff during manufacturing stage.

Employment requirements

- A university degree in industrial design, architecture, engineering
  or
  A college diploma in industrial design is required.
- Creative ability, as demonstrated by a portfolio of work, is required.

Additional information

- There is mobility between positions in this unit group.
- Mobility is possible to other design occupations.

Classified elsewhere

- *Architectural Technologists and Technicians* (2251)
- Civil engineering design technologists (in 2231 *Civil Engineering Technologists and Technicians*)
- Electrical and electronics design technologists (in 2241 *Electrical and Electronics Engineering Technologists and Technicians*)
- Engineering design and drafting technicians and technologists (in 2253 *Drafting Technologists and Technicians*)
- *Graphic Designers and Illustrators* (5241)
- *Interior Designers* (5242)
- Mechanical engineering equipment designers (in 2232 *Mechanical Engineering Technologists and Technicians*)
- *Theatre, Fashion, Exhibit and Other Creative Designers* (5243)

2253 Drafting Technologists and Technicians

Drafting technologists and technicians prepare engineering designs, drawings and related technical information, in multidisciplinary engineering teams or in support of engineers, architects or industrial designers, or they may work independently. They are employed by consulting and construction companies, utility, resource and manufacturing companies, all levels of government and by a wide range of other establishments.

Examples of titles classified in this unit group

architectural draftsperson
computer-assisted design and drafting technologist
computer-assisted drafting (CAD) technician
design and drafting technologist
drafting technician
drafting technologist
draftsperson
electrical draftsperson
electromechanical draftsperson
electronic draftsperson
engineering design and drafting technologist
mechanical draftsperson
structural draftsperson
structural steel drafter-detailer
supervisor, drafting office

Main duties

Drafting technologists perform some or all of the following duties:

- Develop and prepare engineering designs and drawings from preliminary concepts, sketches, engineering calculations, specification sheets and other data
- Operate computer-assisted design (CAD) and drafting workstations
- Develop and prepare design sketches
- Complete documentation packages and produce drawing sets
- Check and verify design drawings to conform to specifications and design data
- Write technical reports
- Prepare contracts and tender documents
- Prepare construction specifications, costs and material estimates
- Supervise and train other technologists, technicians and drafters.

Drafting technicians perform some or all of the following duties:

- Develop and prepare engineering drawings, plans, diagrams or layouts from sketches
- Operate computer-assisted drafting equipment or a conventional drafting station

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year college program in engineering design and drafting technology, or in a related field is usually required for drafting and design technologists.
- Completion of a one- to two-year college program in drafting

  or

  Completion of a three to four year apprenticeship program

  or

  Four to five years of related experience plus completion of college or industry courses in drafting are usually required for drafting technicians.
- Trade certification for draftspersons is available, but voluntary in Ontario.
- Certification in engineering design and drafting technology or in a related field through provincial associations of engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.

2253 Drafting Technologists and Technicians

Additional information

- Senior and supervisory drafting and design technology workers require experience.
- Mobility is possible to civil, mechanical, electrical or other engineering design technologies through educational or work specialization.

Classified elsewhere

- Architectural design technologists (in 2251 *Architectural Technologists and Technicians*)
- Civil engineering design technologists (in 2231 *Civil Engineering Technologists and Technicians*)
- Electrical and electronics engineering design technologists (in 2241 *Electrical and Electronics Engineering Technologists and Technicians*)
- *Industrial Designers* (2252)
- Mechanical engineering design technologists (in 2232 *Mechanical Engineering Technologists and Technicians*)

2254 Land Survey Technologists and Technicians

Land survey technologists and technicians conduct or participate in surveys to determine the exact locations and relative positions of natural features and other structures on the earth's surface, underground and underwater. They are employed by all levels of government, architectural and engineering firms, and by private sector surveying establishments.

Examples of titles classified in this unit group

engineering survey technologist
geodetic survey technologist
geomatics technologist – surveying
land survey technician
legal survey technician
topographic survey technician
transit operator – surveying

Main duties

Land survey technologists perform some or all of the following duties:

- Assist survey engineers or professional surveyors to develop methods and procedures for conducting field surveys
- Conduct field surveys and operate survey instruments and computer equipment to measure distance, angles, elevations and contours
- Record measurements and other information obtained during field survey activities
- Determine precise geographic locations using global positioning systems (GPS) equipment
- Analyze latitude, longitude and angles and compute trigonometric and other calculations to plot features, contours and areas to a specific scale
- Prepare detailed drawings, charts and plans and survey notes and reports
- Supervise and co-ordinate field survey activities.

Land survey technicians perform some or all of the following duties:

- Participate in field surveys and operate survey instruments and devices
- Keep records, measurements and other survey information in systematic order
- Assist in the calculation, analysis and computation of measurements obtained during field surveys
- Assist in the preparation of detailed drawings, charts and plans.

Land survey technologists and technicians may specialize in one of the following types of surveys: geodetic survey, topographic survey, legal (cadastral) survey or engineering survey.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year college program in geomatics or survey technology is usually required for survey technologists.
- Completion of a one- to two-year college program in geomatics or survey technology is usually required for survey technicians.
- Certification by provincial associations of technicians and technologists may be required by some employers.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- Mobility is possible between the various occupations in this unit group.
- Progression to supervisory positions is possible with experience
- Progression to Land Surveyor is possible with completion of professional surveyor examinations and certification
- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.

2254 Land Survey Technologists and Technicians

Classified elsewhere

- *Drafting Technologists and Technicians* (2253)
- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (in 2231 *Civil Engineering Technologists and Technicians*)
- Geological, geophysical, hydrographic and mine survey technologists (in 2212 *Geological and Mineral Technologists and Technicians*)
- *Land Surveyors* (2154)
- *Mapping and Related Technologists and Technicians* (2255)

2255 Mapping and Related Technologists and Technicians

Mapping and related technologists and technicians gather, analyze, interpret and use geospatial information for applications in natural resources, geology, environment and land use planning. This unit group includes technologists and technicians who design and prepare maps, interpret aerial photographs, operate interpretative and airborne remote sensing equipment, and develop and operate geographical information systems. They are employed by all levels of government, the armed forces, utilities, mapping, computer software, forestry, architectural, engineering and consulting firms and other related establishments.

Examples of titles classified in this unit group

aerial survey technician
cartographer
cartographic technician
geographic information systems (GIS) technician
map editor
mapping technician
photogrammetric technologist
photogrammetrist
remote sensing (RS) technician
softcopy photogrammetrist

Main duties

Cartographic technologists and technicians perform some or all of the following duties:

- Plan map content, format and design and compile required data from aerial photographs, survey notes, records, reports and other maps
- Generate maps and related graphs and charts using digital mapping techniques, computer interactive graphics, computer assisted design and drafting (CAD) software, traditional drafting methods and computer or traditional scribing tools
- Inspect final compositions to ensure completeness and accuracy.

Photogrammetric technologists and technicians perform some or all of the following duties:

- Examine and interpret aerial photographs to prepare topographic maps, aerial-photograph mosaics and related charts
- Operate digitized stereoscopic plotting and computer graphics equipment to provide three-dimensional optical models of terrain, to trace maps, and to prepare charts and tables.

Aerial survey technologists and technicians perform some or all of the following duties:

- Operate airborne remote sensing equipment such as survey film or digital cameras, laser or radar sensors and scanners which produce images of large areas of the earth, coastline, or of the atmosphere
- Monitor recording quality and adjust equipment as required and inspect quality of recorded images.

Remote sensing technologists and technicians perform some or all of the following duties:

- Operate analog or computer-based remote sensing interpretive equipment to prepare images, graphic and alphanumeric reports, maps and charts from airborne or satellite data
- Develop specialized analog and computer software specific routines to customize and integrate image analysis
- Verify the integrity and accuracy of data contained in remote sensing image analysis systems.

Geographic information systems (GIS) technologists and technicians perform some or all of the following duties:

- Operate specialized computer hardware and software and peripheral equipment to model, manage, analyze and display geospatial data
- Develop specialized computer software routines, internet based GIS, database and business applications to customize geographic information
- Work with external organizations on data transfer and systems compatibility issues
- Perform data entry and editing activities and maintenance operations to systems following pre-determined calibration procedures
- Integrate external software such as spreadsheets and statistical packages with GIS software
- Train and provide technical support for GIS users.

Employment requirements

- Completion of secondary school is required.
- Technologists in this unit group require completion of a two to three-year college program in cartography, photogrammetry, aerial survey, remote sensing, geographic information system or geomatics.
- Technicians in this unit group require completion of a one to two-year college program in cartography, photogrammetry, aerial survey, remote sensing, geographic information system or geomatics.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.

Additional information

- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.
- Mobility is possible between some occupations in this unit group.

Classified elsewhere

- Airborne geophysical equipment operators (in 2212 *Geological and Mineral Technologists and Technicians*)
- *Drafting Technologists and Technicians* (2253)
- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (in 2231 *Civil Engineering Technologists and Technicians*)
- Geomatics engineers and surveying engineers (in 2131 *Civil Engineers*)
- *Land Survey Technologists and Technicians* (2254)
- *Land Surveyors* (2154)

2261 Nondestructive Testers and Inspectors

Nondestructive testers and inspectors operate radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current and similar testing equipment to detect discontinuities in objects of various compositions and materials. They are employed by quality control, maintenance and safety departments of manufacturing, processing, transportation, energy and other companies and by private industrial inspection establishments.

Examples of titles classified in this unit group

acoustic emission technician
aircraft nondestructive inspection technician
eddycurrent technician
industrial radiographer
infrared thermographer
liquid penetrant inspector
magnetic particle inspector
NDT (non-destructive testing) maintenance technician
non-destructive inspector
non-destructive tester
pressure vessel tester
radiographic technician
radiographic technician – non-destructive testing
ultrasonic inspector
visual inspector – welding
weld inspector

Main duties

Nondestructive testers and inspectors perform some or all of the following duties:

- Set up and calibrate nondestructive testing equipment
- Conduct tests to ensure quality or detect discontinuities (defects) using ultrasonic, radiographic, liquid penetrant, magnetic particle, eddy current and other nondestructive testing methods
- Establish techniques for proper examination of objects under inspection, ensuring strict adherence to safety regulations
- Interpret radiographs, cathode ray tube (CRT) or digital readouts, conductivity meters and visual indicators
- Apply testing criteria in accordance with applicable specifications or standards and evaluate results
- Organize and report test results
- May perform specialized inspections using acoustic emission, vibration analysis, infrared thermography and laser shearography testing methods
- May instruct and supervise trainees.

Employment requirements

- Completion of secondary school is required.
- Completion of two years of an approved post-secondary science or engineering program may be required.
- Additional classroom and on-the-job training is required for certification in nondestructive testing.
- Nondestructive testing certification by Natural Resources Canada is available in three levels and is usually required by employers.
- Industrial radiographers using a radioactive isotope must pass an examination to be recognized as a certified exposure device operator by the Canadian Nuclear Safety Commission.
- Welding inspector certification by the Canadian Welding Bureau is available in three levels and may be required by employers.
- Boiler and pressure vessel, process pipeline and above-ground storage tank inspector certification is available from the American Petroleum Institute.

Classified elsewhere

- *Engineering Inspectors and Regulatory Officers* (2262)
- Radiographic or ultrasonic equipment operating occupations in medical laboratories or hospitals (in minor group 321 *Medical Technologists and Technicians* (*Except Dental Health)*)

2262 Engineering Inspectors and Regulatory Officers

Engineering inspectors and regulatory officers inspect transportation vehicles such as aircraft, watercraft, automobiles and trucks and weighing and measuring devices such as scales and meters as well as industrial instruments, processes and equipment for conformity to government and industry standards and regulations. They are employed by government agencies and in the private sector.

Examples of titles classified in this unit group

airworthiness inspector
elevator inspector
engineering inspector
inspector, air carrier maintenance
inspector, air transport
inspector, electricity and gas meters
inspector, weights and measures
insurance loss prevention inspector
marine damage surveyor
motor vehicles defects investigator
railway accident investigation officer
regulatory officer, engineering

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Motor vehicles defects investigators conduct motor vehicle and motor vehicle component defect investigations, examinations, tests and defect-related accident investigations; provide expert advice and testimony on specific motor vehicle performance problems or defects and recommend improvements in vehicle inspection and licensing procedures and vehicle safety standards.
- Railway accident investigation officers collect and analyze data from train derailments, collisions, and other accidents to determine the causes and inspect and evaluate railway property, structures, rolling stock, signals, track structure and train handling characteristics to ensure compliance to operating standards.
- Airworthiness inspectors conduct initial and regular inspections of establishments and individuals holding or applying for air carrier operating certificates and establishments engaged in aircraft maintenance, repair or modification; inspect aircraft, advise of any deficiencies and detain aircraft suspected of being unairworthy or unsafe.
- Inspectors, weights and measures conduct inspections and tests of a variety of mechanical and electronic weighing and measuring devices and systems; prepare draft investigative reports of findings and recommend corrective or enforcement action.

Employment requirements

- University degree or college diploma in an appropriate engineering field
  or
  Trade qualifications and extensive related work experience are required.
- Appropriate professional engineering or engineering technology certification and licences may be required.

Classified elsewhere

- *Construction Inspectors* (2264)
- *Inspectors in Public and Environmental Health and Occupational Health and Safety* (2263)

2263 Inspectors in Public and Environmental Health and Occupational Health and Safety

Inspectors in this unit group evaluate and monitor health and safety hazards and develop strategies to control risks in the workplace. They inspect restaurants, public facilities, industrial establishments, municipal water systems and other workplaces to ensure compliance with government regulations regarding sanitation, pollution control, the handling and storage of hazardous substances and workplace safety. They are employed throughout the private and public sectors.

Examples of titles classified in this unit group

environmental health officer
hazardous waste inspector
health and safety officer
health standards inspector
occupational health and safety officer
pollution control inspector
public health inspector
restaurant inspector
rodent control officer
supervisor, public health inspectors
water inspector

Main duties

Inspectors in this unit group perform some or all of the following duties:

- Inspect the sanitary conditions of restaurants, hotels, schools, hospitals and other public facilities or institutions
- Conduct surveys and monitoring programs of the natural environment to identify sources of pollution
- Collect samples of water for analysis; measure physical, biological and chemical workplace hazards; and conduct safety and environmental audits
- Investigate health and safety related complaints, spills of hazardous chemicals, outbreaks of diseases or poisonings and workplace accidents
- Inspect workplaces to ensure that equipment, materials and production processes do not present a safety or health hazard to employees or to the general public
- Develop, implement and evaluate health and safety programs and strategies
- Initiate enforcement procedures to fine or to close an establishment contravening municipal, provincial or federal regulations
- Provide consultation and deliver training programs to employers, employees and the general public on issues of public health, environmental protection or workplace safety.

Employment requirements

- A bachelor's degree or college diploma in a discipline such as food science, environmental studies, chemistry or health and safety is usually required.
- In some establishments, several years of related work experience and the completion of in-house training courses may substitute for formal education.
- Public health inspectors employed outside Quebec require certification with the Canadian Institute of Public Health Inspectors.
- Occupational health and safety officers may require certification with the Association for Canadian Registered Safety Professionals.

Classified elsewhere

- *By-law Enforcement and Other Regulatory Officers, n.e.c.* (6463)
- *Construction Inspectors* (2264)
- *Engineering Inspectors and Regulatory Officers* (2262)
- Occupational hygienists and ergonomists (in 4161 – *Natural and Applied Science Policy Researchers, Consultants and Program Officers*)

2264 Construction Inspectors

Construction inspectors inspect the construction and maintenance of new and existing buildings, bridges, highways and industrial construction to ensure that specifications and building codes are observed and monitor work site safety. They are employed by federal, provincial and municipal governments, construction companies, architectural and civil engineering consulting firms or they may be self-employed.

Examples of titles classified in this unit group

bridge inspector
building construction inspector
construction inspector
highway construction inspector
home inspector
housing construction inspector
mine inspector, construction
plumbing inspector
pre-stressed concrete inspector
safety officer – construction

Main duties

Construction inspectors perform some or all of the following duties:

- Examine plans, drawings, and site layouts for new buildings, building renovations and other proposed structures
- Inspect construction of buildings, bridges, dams, highways and other types of building and engineering construction for conformance to drawings, specifications, building codes or other applicable ordinances
- Inspect and test electrical or plumbing installations in buildings to ensure compliance with municipal, provincial and federal regulations
- Inspect steel framework, concrete forms, reinforcing steel mesh and rods, concrete or pre-stressed concrete to ensure quality standards and to verify conformance to specifications and building codes
- Inspect construction of sewer systems and pipelines
- Inspect construction sites to ensure that safe working conditions are maintained
- Inspect existing buildings to identify and report on structural defects, fire hazards and other threats to safety
- Inspect new or resale homes on behalf of clients and assess and provide reports on the physical condition of property.

Employment requirements

- Completion of secondary school is required.
- College diploma in construction, civil engineering or architectural technology plus several years of related work experience

  or

  Several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are required.
- Provincial certification in a skilled trade or as an engineering technologist is usually required.

Additional information

- Progression to construction management positions is possible with experience.

Classified elsewhere

- *By-law Enforcement and Other Regulatory Officers, n.e.c.* (6463)
- *Construction Estimators* (2234)
- *Construction Managers* (0711)
- *Engineering Inspectors and Regulatory Officers* (2262)
- *Inspectors in Public and Environmental Health and Occupational Health and Safety* (2263)

2271 Air Pilots, Flight Engineers and Flying Instructors

Pilots fly fixed wing aircraft and helicopters to provide air transportation and other services. Flight engineers (second officers) monitor the functioning of aircraft during flight and may assist in flying aircraft. Flying instructors teach flying techniques and procedures to student and licensed pilots. Air pilots, flight engineers and flight instructors are employed by airline and air freight companies, flying schools, the armed forces and by other public and private sector aircraft operators.

Examples of titles classified in this unit group

air pilot
captain – air transport
check pilot
chief flying instructor
chief pilot
co-pilot
flight engineer
flying instructor
helicopter pilot
military pilot
pilot instructor
second officer
test pilot

Main duties

Pilots perform some or all of the following duties:

- Fly fixed wing aircraft or helicopters to transport passengers and freight
- Provide services such as search and rescue, aerial surveying or spraying and crop dusting
- Direct activities of aircraft crew during flight, as captain of aircraft
- Co-pilot aircraft and perform captain's duties if required, as first officer
- Test new aircraft to evaluate aircraft performance
- Train pilots to use new equipment, or prepare them for examination to re-validate or upgrade existing licences.

Flight engineers (second officers) perform some or all of the following duties:

- Monitor operation of engines, fuel consumption and functioning of aircraft systems during flight
- Assist captain and first officer in operation of aircraft as second officer.

Flying instructors perform some or all of the following duties:

- Instruct student pilots in procedures and techniques of flying aircraft and in ground-school subjects such as navigation, radio procedures and flying regulations
- Train licensed pilots for additional certification.

Employment requirements

Pilots and flight engineers

- Completion of secondary school and graduation from a certified flying or aviation school are required.
- A commercial pilot's licence or an air transport pilot's licence is required.
- Additional licences or endorsements to fly different types of aircraft are required.
- A university degree or college diploma may be required.
- Structured training is provided by employers.

Flight instructors

- Completion of secondary school and graduation from a certified flying or aviation school are required.
- A commercial pilot's or an air transport pilot's licence is required.
- Transport Canada ratings and endorsements to provide instruction on different types of aircraft are required.
- A university degree or college diploma may be required.

Classified elsewhere

- *Air Traffic Control and Related Occupations* (2272)
- Ground school instructors (in 4131 *College and Other Vocational Instructors*)

2272 Air Traffic Control and Related Occupations

Air traffic controllers direct air traffic within assigned airspace, and control moving aircraft and service vehicles at airports. Flight dispatchers authorize airline flights over assigned routes. Flight service specialists provide pilots with flight information essential to aviation safety. Air traffic controllers and flight service specialists are employed by NAV Canada and the armed forces. Flight dispatchers are employed by airline and air services companies and by the armed forces.

Examples of titles classified in this unit group

air traffic controller (ATC)
airport air traffic controller
enroute air traffic controller
flight dispatcher
terminal air traffic controller

Main duties

Air traffic controllers perform some or all of the following duties:

- Control flow of air traffic within assigned airspace using radar monitors, radio and other communication equipment and visual references
- Issue aircraft takeoff and landing instructions to pilots and relay meteorological, navigational and other information to pilots in flight
- Maintain radio and telephone contact with adjacent control towers, terminal control units and other area control centres, and co-ordinate movement of aircraft into adjoining areas
- Alert airport emergency services when aircraft are experiencing difficulties and report missing aircraft to search and rescue services
- Direct activities of all moving aircraft and service vehicles on or near airport runways.

Flight dispatchers perform some or all of the following duties:

- Analyze environmental conditions and assess aircraft for load and fuel capacity and other factors to determine flight routes
- Brief flight crew before takeoff on weather conditions, status of navigational facilities and airports en route
- Co-sign flight authorization with aircraft captain
- Monitor progress of flight and communicate as required with aircraft during flight
- Delay or cancel flights if conditions warrant
- Prepare and maintain flight plans, flight logs and other reports.

Flight service specialists perform some or all of the following duties:

- Provide pre-flight information concerning current and forecast weather conditions, radio frequencies, terrain, airports and related data to assist pilots in preparation of flight plans
- Check flight plans for completeness and accuracy and forward flight plans to air traffic services facility
- Respond to radio calls from aircraft preparing for takeoff or landing and supply information such as weather conditions, wind speed and direction and presence of local air traffic
- Support air traffic control operations by relaying radio requests for flight clearances, arrival and departure information and position reports
- Alert airport emergency services of aircraft experiencing difficulties and initiate communication searches when aircraft become overdue
- Observe, record and report weather conditions at airports.

Employment requirements

- Completion of secondary school is required.
- A basic radio telephone operator's licence is required.
- Air traffic controllers and flight service specialists require completion of a NAV Canada training program which includes structured in-class and on-the-job training.
- Air traffic controllers require an air traffic controller's licence.
- Flight dispatchers may require experience in air traffic control or flight operations and may require a private pilot's licence.

Additional information

- Air traffic controllers with experience and appropriate NAV Canada endorsements may move to units with higher volumes of air traffic.

Classified elsewhere

- *Railway Traffic Controllers and Marine Traffic Regulators* (2275)

2273 Deck Officers, Water Transport

Deck officers, water transport, operate ships or self-propelled vessels to transport passengers and cargo on oceans and coastal and inland waters, and supervise and co-ordinate the activities of deck crews. This unit group also includes Canadian Coast Guard deck officers. They are employed by marine transportation companies and federal government departments including the armed forces.

Examples of titles classified in this unit group

deck officer
ferryboat master
first mate, ship
maritime surface and sub-surface officer – military
master mariner
navigation officer, Coast Guard vessel
second mate, ship
ship pilot
ship's captain
ship's mate
third mate, ship
tugboat captain
watchkeeping officer, Coast Guard vessel

Main duties

Deck officers perform some or all of the following duties:

- Command and operate ships or other self-propelled vessels, such as barges or oil rigs, to transport passengers and cargo
- Command and operate coast guard vessels to provide ice breaking and search and rescue services and to maintain control over ships operating in Canadian waters
- Board vessels at berth or from pilot boat to advise ships' captains on the course to steer for safe passage into and out of port, seaway or other waterway under pilotage authority
- Plan and execute safe navigational passage using navigational aids
- Determine geographical position using navigational instruments, maps and charts
- Guide vessels in rivers, canals, and other confined or hazardous waters and waterways
- Maintain vessel's navigational instruments and equipment
- Direct and oversee loading and unloading of cargo
- Supervise and co-ordinate activities of deck crews
- Record vessel's progress, crew's activities, weather and sea conditions on ship's log.

Employment requirements

- Completion of secondary school is required.
- Completion of deck officer cadet program from an approved nautical institute
  or
  One to three years of experience as a member of a deck crew are required.
- Deck officer certificate of competency, issued by Transport Canada, is required.
- For ship pilots, a ship pilot licence and a master certificate of competency are required.

Additional information

- Transport Canada administers a deck officer certification program, consisting of several levels. Progression from one level of certification to the next requires additional experience, training and testing.
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.

Classified elsewhere

- *Deck Crew, Water Transport* (7433)
- *Engine Room Crew, Water Transport* (7434)
- *Engineer Officers, Water Transport* (2274)
- *Fishing Masters and Officers* (8261)
- Shore captains (in 0713 *Transportation Managers*)

2274 Engineer Officers, Water Transport

Engineer officers, water transport, operate and maintain main engines, machinery and auxiliary equipment aboard ships and other self-propelled vessels and supervise and co-ordinate the activities of engine room crews. They are employed by marine transportation companies and federal government departments including the armed forces.

Examples of titles classified in this unit group

chief engineer – water transport
engineer officer – water transport
fourth engineer
marine engineer officer
marine engineer officer – military
second engineer
third engineer
tugboat engineer

Main duties

Engineer officers, water transport, perform some or all of the following duties:

- Operate main engines, machinery and all auxiliary equipment aboard ships, such as boilers, steering and deck machinery, motors, pumps, generators and condensers
- Stand engine room watch, monitoring and noting performance of engines, machinery and all auxiliary equipment
- Inspect and conduct maintenance and emergency repair to engines, machinery and all auxiliary equipment
- Supervise and co-ordinate activities of engine room crew
- Maintain records and prepare reports on engine performance and failures.

Employment requirements

- Completion of secondary school is required.
- Completion of a three-year cadet program in marine engineering from an approved marine training institute

  or

  Approximately three years of experience as an engine room crew member and six months of formal training at an approved marine training institute

  or

  Approximately three years of experience as an engine mechanic and six months of experience as an engine room crew member are required for certification as a fourth class marine engineer.
- A marine engineer officer certificate of competency, issued by Transport Canada, is required.

Additional information

- Fourth Class Marine Engineer certificate is the entry level of a four-level certification program administered by Transport Canada. Progression from one level of certification to the next requires additional experience, training and testing.
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.

2274 Engineer Officers, Water Transport

Classified elsewhere

- *Deck Crew, Water Transport* (7433)
- *Deck Officers, Water Transport* (2273)
- *Engine Room Crew, Water Transport* (7434)
- Marine and naval engineers (in 2148 *Other Professional Engineers, n.e.c.*)
- Marine mechanical engineers (in 2132 *Mechanical Engineers*)
- *Transportation Managers* (0713)

2275 Railway Traffic Controllers and Marine Traffic Regulators

Railway traffic controllers co-ordinate passenger and freight train traffic on railways. They are employed by rail transport companies. Marine traffic regulators monitor and regulate coastal and inland marine traffic within assigned waterways. They are employed by port, harbour, canal and lock authorities and by the Canadian Coast Guard.

Examples of titles classified in this unit group

chief rail traffic controller
marine traffic regulator
rail traffic controller
train operator

Main duties

Railway traffic controllers perform some or all of the following duties:

- Operate and monitor centralized traffic control systems to co-ordinate and follow railway traffic
- Chart train movements, calculate arrival and departure times and record rail traffic information
- Issue instructions to control the movement of passenger and freight train traffic and on-track mobile maintenance equipment
- Receive, record and relay train instructions to train crew by hand or radio telephone
- May supervise and train other railway traffic controllers.

Marine traffic regulators perform some or all of the following duties:

- Direct and monitor vessel movements using radar or closed circuit monitors, remote radio systems and other telecommunication equipment
- Obtain position, course, speed and estimated arrival time of vessels and monitor vessel progress through traffic zone
- Issue clearance instructions to vessels, advise vessels of traffic volumes and weather conditions, and relay information to next marine traffic control sector
- Report accidents, distress signals, navigational hazards and other emergencies to authorities
- Maintain radio and telephone contact with adjacent marine control sectors and with vessels within area of jurisdiction
- Maintain log of vessel movements, size and structure.

Employment requirements

- Railway traffic controllers usually require completion of secondary school and several years of experience in railway industry.
- Up to 35 weeks of classroom and on-the-job training is provided to the railway traffic controllers.
- Railway traffic controllers require Level "A" Certificate of the Canadian Rail Operating Rules.
- Railway traffic controllers who are train operators require Level "B" Certificate of the Canadian Rail Operating Rules.
- Marine traffic regulators require completion of secondary school and several months of formal traffic regulator training.

Additional information

- With experience, railway traffic controllers may progress to supervisory positions in rail transport operations.
- There is little mobility between traffic controlling occupations in the railway and marine sectors.

Classified elsewhere

- Harbour masters (in 0721 *Facility Operation and Maintenance Managers*)
- Subway traffic controllers and light rail transit dispatchers (in 7222 *Supervisors, Motor Transport and Other Ground Transit Operators*)
- *Supervisors, Railway Transport Operations* (7221)

2281 Computer and Network Operators and Web Technicians

Computer and network operators establish, operate, maintain, and co-ordinate the use of local and wide area networks (LANs and WANs), mainframe networks, hardware, software and related computer equipment. Web technicians set up and maintain internet and intranet web sites and web server hardware and software, and monitor and optimize network connectivity and performance. They are employed in information technology units throughout the private and public sectors. Supervisors of computer and network operators and web technicians are included in this group.

Examples of titles classified in this unit group

computer operator
computer tape librarian
data centre operator
internet web site technician
LAN (local area network) administrator
LAN (local area network) technician
network administrator
network operator
network support technician
computer operators supervisor
system administrator
web technician

Main duties

Computer and network operators perform some or all of the following duties:

- Maintain, troubleshoot and administer the use of local area networks (LANs), wide area networks (WANs), mainframe networks and computer workstations and peripheral equipment
- Evaluate and install computer hardware, networking software and operating system software
- Operate master consoles to monitor the performance of computer systems and networks and to co-ordinate access and use of computer networks
- Load computer tapes and disks and install software and printer paper and forms
- Provide problem-solving services to network users
- Implement data, software and hardware security procedures
- Perform routine network start up and close down and maintain control records
- Perform data backups and disaster recovery operations.

Web technicians perform some or all of the following duties:

- Install, maintain, troubleshoot and upgrade web-server hardware and software
- Set up local area networks and connections to the internet
- Implement network traffic and security monitoring software, and optimize server performance
- Modify web pages, applets and scripts
- Research and apply meta-data to web sites and register web sites with search engines
- Respond to requests for help and information from web site visitors and web site designers
- Perform web-server backup and recovery operations.

Employment requirements

- Completion of a college or other program in computer science, network administration, web technology or in a related field is usually required.
- Certification or training provided by software vendors may be required by some employers.

Additional information

- Progression to computer programming, interactive media development, web development or systems analysis is possible with experience.

Classified elsewhere

- *Computer Engineers (except Software Engineers)* (2147)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Sales, Marketing and Advertising Managers* (0611)
- *Systems Testing Technicians* (2283)
- *Technical Support Analysts* (2282)
- *Web Designers and Developers* (2175)

2282 User Support Technicians

Technicians in this group provide first-line technical support to computer users experiencing difficulties with computer hardware and with computer applications and communications software. They are employed by computer hardware manufacturers and retailers, software developers, in call centres and in information technology units throughout the private and public sectors.

Examples of titles classified in this unit group

call centre agent – technical support
client support representative – systems
computer help desk representative – systems
computer help desk supervisor
hardware installation technician
hardware technical support analyst
help desk technician
software installation technician
software technical support analyst
systems support representative
technical support analyst – systems
technical support supervisor
user support technician

Main duties

User support technicians perform some or all of the following duties:

- Communicate electronically and in person with computer users experiencing difficulties to determine and document problems experienced
- Consult user guides, technical manuals and other documents to research and implement solutions
- Provide advice and training to users in response to identified difficulties
- Collect, organize and maintain a problems and solutions log for use by other technical support analysts
- Participate in the redesign of applications and other software
- May supervise other technical support workers in this group.

Employment requirements

- Completion of a college program in computer science, computer programming or network administration is usually required.
- College or other courses in computer programming or network administration are usually required.
- Certification or training provided by software vendors may be required by some employers.

Additional information

- Progression to computer programming, interactive media development, web development or systems analysis is possible with experience.

Classified elsewhere

- *Computer and Network Operators and Web Technicians* (2281)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Information Systems Analysts and Consultants* (2171)
- *Systems Testing Technicians* (2283)

2283 Systems Testing Technicians

Systems testing technicians execute test plans to evaluate the performance of software applications and information and telecommunications systems. They are employed in information technology units throughout the private and public sectors.

Examples of titles classified in this unit group

application tester
application testing technician
software test co-ordinator
software tester
systems tester
systems testing technician
user acceptance tester

Main duties

Systems testing technicians perform some or all of the following duties:

- Develop and document software testing plans
- Install software and hardware and configure operating system software in preparation for testing
- Execute and document results of software application tests and information and telecommunication systems tests
- Develop and implement software and information system testing policies and procedures.

Employment requirements

- Completion of a college program in computer science, computer programming or network administration is usually required.
- College or other courses in computer programming or network administration are usually required.
- Certification or training provided by software vendors may be required by some employers.

Additional information

- Progression to computer programming, interactive media development, web development or systems analysis is possible with experience.

Classified elsewhere

- *Computer and Network Operators and Web Technicians* (2281)
- *Computer Engineers (Except Software Engineers)* (2147)
- *Computer Programmers and Interactive Media Developers* (2174)
- *Information Systems Analysts and Consultants* (2171)
- *Software Engineers* (2173)
- *User Support Technicians* (2282)
- *Web Designers and Developers* (2175)

HEALTH OCCUPATIONS

Major Group 31
PROFESSIONAL OCCUPATIONS IN HEALTH

311 Physicians, Dentists and Veterinarians

3111 Specialist Physicians
3112 General Practitioners and Family Physicians
3113 Dentists
3114 Veterinarians

312 Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals

3121 Optometrists
3122 Chiropractors
3123 Other Professional Occupations in Health Diagnosing and Treating

313 Pharmacists, Dietitians and Nutritionists

3131 Pharmacists
3132 Dietitians and Nutritionists

314 Therapy and Assessment Professionals

3141 Audiologists and Speech-Language Pathologists
3142 Physiotherapists
3143 Occupational Therapists
3144 Other Professional Occupations in Therapy and Assessment

315 Nurse Supervisors and Registered Nurses

3151 Head Nurses and Supervisors
3152 Registered Nurses

Major Group 32
TECHNICAL AND SKILLED OCCUPATIONS IN HEALTH

321 Medical Technologists and Technicians (Except Dental Health)

3211 Medical Laboratory Technologists and Pathologists' Assistants
3212 Medical Laboratory Technicians
3213 Veterinary and Animal Health Technologists and Technicians
3214 Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists
3215 Medical Radiation Technologists
3216 Medical Sonographers
3217 Cardiology Technologists
3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.
3219 Other Medical Technologists and Technicians (Except Dental Health)

322 Technical Occupations in Dental Health Care

3221	Denturists
3222	Dental Hygienists and Dental Therapists
3223	Dental Technologists, Technicians and Laboratory Bench Workers

323 Other Technical Occupations in Health Care (Except Dental)

3231	Opticians
3232	Midwives and Practitioners of Natural Healing
3233	Licensed Practical Nurses
3234	Ambulance Attendants and Other Paramedical Occupations
3235	Other Technical Occupations in Therapy and Assessment

Major Group 34
ASSISTING OCCUPATIONS IN SUPPORT OF HEALTH SERVICES

341 Assisting Occupations in Support of Health Services

3411	Dental Assistants
3413	Nurse Aides, Orderlies and Patient Service Associates
3414	Other Assisting Occupations in Support of Health Services

3111 Specialist Physicians

This unit group includes specialist physicians in clinical medicine, in laboratory medicine and in surgery. Specialists in clinical medicine diagnose and treat diseases and physiological or psychiatric disorders and act as consultants to other physicians. Specialists in laboratory medicine study the nature, cause and development of diseases in humans. Specialists in surgery perform and supervise surgical procedures. Specialists in clinical medicine usually work in private practice or in a hospital while those in laboratory medicine and in surgery usually work in hospitals. Residents in training to become specialist physicians are included in this unit group.

Examples of titles classified in this unit group

Specialists in clinical medicine

anesthetist
cardiologist
clinical immunologist-allergist
dermatologist
diagnostic radiologist
emergency physician
endocrinologist
gastroenterologist
geriatrician
hematologist
nephrologist
neurologist
oncologist
orthopedist
pneumologist
pediatrician
physiatrist
psychiatrist
radiation oncologist
respirologist
rheumatologist

Specialists in laboratory medicine

anatomical pathologist
general pathologist
hematopathologist
medical biochemist
medical microbiologist
neuropathologist

Specialists in surgery

cardiac surgeon
general surgeon
neurosurgeon
obstetrician-gynaecologist
ophthalmologist
orthopedic surgeon
otolaryngologist
pediatric surgeon
plastic surgeon
thoracic surgeon
urologist
vascular surgeon

Main duties

Specialists in clinical medicine perform some or all of the following duties:

- Diagnose and treat diseases and physiological or psychiatric disorders
- Order laboratory tests, X-rays and other diagnostic procedures
- Prescribe medication and treatment and refer patients for surgery
- Act as consultants to other physicians
- May conduct medical research.

Specialists in laboratory medicine perform some or all of the following duties:

- Study the nature, cause and development of diseases in humans and the structural and functional changes caused by diseases
- Conduct microscopic and chemical analyses of laboratory samples and specimens
- Supervise laboratory activities
- Act as consultants to other physicians.

Specialists in surgery perform some or all of the following duties:

- Assess patients' diseases or disorders to determine appropriate surgical procedures
- Perform and supervise surgical procedures to correct physical abnormalities and deficiencies and repair injuries
- Act as consultants to other physicians.

Employment requirements

Specialist physicians

- A bachelor of science degree
  or
  In Quebec, completion of a college program and one year of pre-medicine university studies is usually required.

3111 Specialist Physicians

- Graduation from an approved medical school and specific specialty training is required.
- Completion of the certifying examinations of the Royal College of Physicians and Surgeons of Canada
  and
  Licensing by the provincial or territorial licensing authority are required.

Specialists in clinical medicine

- Four to five years of specialty residency training is required.
- Two years of subspecialty training may also be required.

Specialists in laboratory medicine

- Four to five years of specialty residency training is required.

Specialists in surgery

- Five to six years of specialty residency training is required.
- Two years of subspecialty training may also be required.

Additional information

- Progression to management positions, such as director of laboratory medicine or chief of surgery, is possible with experience.

Classified elsewhere

- *Chiropractors* (3122)
- *General Practitioners and Family Physicians* (3112)
- *Managers in Health Care* (0311)
- Naturopathic physicians and osteopathic physicians (in 3123 *Other Professional Occupations in Health Diagnosing and Treating*)

3112 General Practitioners and Family Physicians

General practitioners and family physicians diagnose and treat the diseases, physiological disorders and injuries of patients. They provide primary contact and continuous care toward the management of patients' health. They usually work in private practice, including group or team practices, hospitals and clinics. Residents in training to be general practitioners and family physicians are included in this unit group.

Examples of titles classified in this unit group

family physician
general practitioner (GP)
medical doctor
resident, general practice

Main duties

General practitioners and family physicians perform some or all of the following duties:

- Examine patients and take their histories, order laboratory tests, X-rays and other diagnostic procedures and consult with other medical practitioners to evaluate patients' physical and mental health
- Prescribe and administer medications and treatments
- Perform and assist in routine surgery
- Provide emergency care
- Provide acute care management
- Inoculate and vaccinate patients
- Deliver babies and provide pre-natal and post-natal care
- Advise patients and their families on health care including health promotion, disease, illness and accident prevention
- Provide counselling and support to patients and their families on a wide range of health and lifestyle issues
- Perform patient advocacy role
- Co-ordinate or manage primary patient care
- Provide continuous care to patients
- Supervise home care services
- Report births, deaths, and contagious and other diseases to governmental authorities.

Employment requirements

- A bachelor's degree
  or
  In Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Graduation from an approved medical school
  and
  Two to three years of family medicine residency training are required.
- Completion of the qualifying examinations of the Medical Council of Canada
  and
  Licensing by the provincial or territorial licensing authority are required.

Additional information

- General practitioners and family physicians may become specialist physicians with additional training.

Classified elsewhere

- *Chiropractors* (3122)
- Naturopathic physicians and osteopathic physicians (in 3123 *Other Professional Occupations in Health Diagnosing and Treating*)
- *Specialist Physicians* (3111)

3113 Dentists

Dentists diagnose, treat, prevent and control disorders of the teeth and mouth. They work in private practice or may be employed in hospitals, clinics, public health facilities or universities.

Examples of titles classified in this unit group

dentist
endodontist
oral and maxillofacial surgeon
oral pathologist
oral radiologist
orthodontist
pediatric dentist
periodontist
prosthodontist
public health dentist

Main duties

Dentists perform some or all of the following duties:

- Examine patients' teeth, gums and surrounding tissue to diagnose disease, injury and decay and plan appropriate treatment
- Restore, extract and replace diseased and decayed teeth
- Perform oral surgery, periodontal surgery and other treatments
- Clean teeth and instruct patients on oral hygiene
- Design bridgework, fit dentures and provide appliances to correct abnormal positioning of the teeth and jaws, or write fabrication instructions or prescriptions for use by denturists and dental technicians
- Supervise dental hygienists, dental assistants and other staff.

Dentists may specialize in such areas as oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontics, endodontics, prosthodontics, oral pathology, oral radiology or public health dentistry.

Employment requirements

- One to four years of pre-dentistry university studies, or, in Quebec, completion of a college program in sciences
  and
  A university degree from a recognized dental program are required.
- Licensing by a provincial or territorial regulatory body is required.
- Dentists in general practice can move into a specialized practice through advanced training.
- Licensing for specializations is required.

Additional information

- Certification by the National Dental Examining Board of Canada entitles dentists or graduates of approved dental programs to practise dentistry in any province in Canada provided requirements set out by the provincial and territorial licensing authorities are met.

Classified elsewhere

- *Dental Assistants* (3411)
- *Dental Hygienists and Dental Therapists* (3222)
- *Dental Technologists, Technicians and Laboratory Bench Workers* (3223)
- *Denturists* (3221)

3114 Veterinarians

Veterinarians prevent, diagnose and treat diseases and disorders in animals and advise clients on the feeding, hygiene, housing and general care of animals. Veterinarians work in private practice or may be employed by animal clinics and laboratories, government or industry.

Examples of titles classified in this unit group

small animal veterinary specialist
veterinarian
veterinary inspector
veterinary pathologist
veterinary physiologist
zoo veterinarian

Main duties

Veterinarians perform some or all of the following duties:

- Diagnose diseases or abnormal conditions in animals through physical examinations or laboratory tests
- Treat sick or injured animals by prescribing medication, setting bones, dressing wounds or performing surgery
- Perform routine, emergency and post-mortem examinations
- Inoculate animals to prevent diseases
- Provide obstetrical and dental services
- Advise clients on feeding, housing, breeding, hygiene and general care of animals
- Provide euthanasia services
- May supervise animal health technologists and animal care workers
- May be responsible for overall operation of animal hospital, clinic or mobile service to farms
- May conduct veterinary research
- May enforce government regulations in disease control and food production including animal or animal-based food inspection.

Employment requirements

- Two to four years of pre-veterinary university studies or, in Quebec, completion of a college program in health science
  and
  A four-year university degree in veterinary medicine
  and
  Completion of national certification examinations are required.
- Provincial licensing is required.
- Entry into research positions may require post-graduate study.

Additional information

- The duties of veterinarians performing research may be similar to those of some biologists.

Classified elsewhere

- *Biologists and Related Scientists* (2121)
- *Veterinary and Animal Health Technologists and Technicians* (3213)

3121 Optometrists

Optometrists examine eyes, prescribe and fit eyeglasses and contact lenses and recommend treatments such as exercises to correct vision problems or ocular disorders. They work in private practice, clinics and community health centres.

Examples of titles classified in this unit group

doctor of optometry

optometrist

Main duties

Optometrists perform some or all of the following duties:

- Examine patients' eyes, conduct tests and use ophthalmoscopes, biomicroscopes and other specialized instruments to determine visual efficiency
- Prescribe treatment (excluding surgery) to conserve, improve and correct vision and other ocular disorders
- Prescribe and fit eyeglasses and contact lenses, educate and counsel patients on contact lens use and care, visual hygiene, lighting arrangements, working distances and safety factors
- Refer patients to ophthalmologists or other physicians and surgeons for treatment of ocular or other diseases or conditions.

Optometrists may specialize in fitting visual aids for people who are partially blind, fitting contact lenses or correcting special vision problems.

Employment requirements

- One to three years of college or university, with a concentration in mathematics and science courses
  and
  A four-year university program in optometry are required.
- Licensing by the provincial or territorial regulatory governing body is required.

Classified elsewhere

- Ophthalmologists (in 3111 *Specialist Physicians*)
- *Opticians* (3231)
- Orthoptists (in 3123 *Other Professional Occupations in Health Diagnosing and Treating*)

3122 Chiropractors

Chiropractors diagnose and treat patients' neuromuscular-skeletal disorders of the spine and other body joints by adjusting the spinal column or through other corrective manipulation. Chiropractors are usually in private practice or in clinics with other health practitioners.

Examples of titles classified in this unit group

chiropractic doctor
chiropractor
doctor of chiropractic

Main duties

Chiropractors perform some or all of the following duties:

- Take patient's case history, conduct examination, observe patient and perform X-rays and other tests to diagnose patient's condition
- Diagnose neuromuscular-skeletal disorders of the spinal column, pelvis, extremities and associated tissues
- Treat health disorders in a natural manner through adjustments or articular manipulations and complementary treatments such as electrotherapy, nutrition, light and massage with special attention given to the spine
- Advise patients on corrective exercises, posture, lifestyle and nutrition
- Refer patients for medical care when appropriate.

Employment requirements

- A minimum of two years of university undergraduate studies in sciences
  and
  Completion of a four- or five-year program at an institution accredited by the Accreditation Commission of the Council on Chiropractic Education
  and
  Completion of the examinations of the Canadian Chiropractic Examining Board and of the provincial licensing body are required.
- Licensure by a regulatory body is required in all provinces and in the Yukon.

Classified elsewhere

- Chiropractic aides (in 3414 *Assisting Occupations in support of Health Services*)

3123 Other Professional Occupations in Health Diagnosing and Treating

This unit group includes health professionals who diagnose and treat the diseases and injuries of patients and who are not elsewhere classified. This includes doctors of podiatric medicine, chiropodists and podiatrists, naturopaths, orthoptists and osteopaths. They work in private practices, clinics and hospitals.

Examples of titles classified in this unit group

chiropodist
doctor of osteopathy
doctor of podiatric medicine (DPM)
foot specialist
naturopath
naturopathic doctor (ND)
orthoptist
osteopath
osteopathic physician
podiatrist

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Doctors of podiatric medicine are primary care practitioners who diagnose diseases, deformities and injuries of the human foot and communicate diagnoses to patients. They treat patients using braces, casts, shields, orthotic devices, physical therapy, or prescribed medications. Doctors of podiatric medicine may also perform surgery on the bones of the forefoot and the subcutaneous soft tissues of the foot.
- Chiropodists and diploma or first-degree trained podiatrists diagnose diseases, deformities and injuries of the human foot and treat patients using braces, casts, shields, orthotic devices, physical therapy and subcutaneous soft-tissue foot surgery.
- Naturopaths diagnose patients' diseases and disorders and employ natural methods of healing such as acupuncture and acupressure, spinal manipulation, reflexology, hydrotherapy, herbal medicines, biochemical therapy, clinical nutrition, homeopathy and counselling in their treatment.
- Orthoptists assist ophthalmologists in the diagnosis and treatment of eye disorders by performing specialized eye tests to measure and assess defective binocular vision or abnormal eye movement in patients and prescribing treatment such as eye exercises or patching regimens.
- Osteopaths or osteopathic physicians diagnose disorders and injuries of the musculo-skeletal, circulatory and nervous systems and treat patients with manipulative therapy, medications or surgery.

Employment requirements

Doctors of podiatric medicine (D.P.M.)

- A four-year doctoral degree program in podiatric medicine available in the United States, normally following completion of a bachelor's degree program is required.
- A one-year medical residency is required in British Columbia.
- A doctor of podiatric medicine (D.P.M.) degree is required to practice podiatry in Quebec, Alberta and British Columbia.

Chiropodists and podiatrists

- A three-year diploma program in chiropody (D.Ch.) obtained in Canada
  or
  A first-degree program in podiatric medicine (D.Pod.M.) obtained abroad (United Kingdom) is usually required.
- Provincial licensure is required in New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

Naturopaths

- A university degree in pre-medical science is required.
- Completion of a university program in naturopathic medicine, obtained abroad
  or
  A four-year program in naturopathic medicine from a private institute is required.
- A licence is required in Ontario, Manitoba, Saskatchewan and British Columbia.

3123 Other Professional Occupations in Health Diagnosing and Treating

Orthoptists

- A minimum of two years of university education with a specialization in science
  and
  A two-year accredited hospital-based training program in orthoptics offered in Halifax, Toronto, Saskatoon and Vancouver and practical training under the supervision of an ophthalmologist are required.
- Certification with the Canadian Orthoptic Council is available but is only required in Quebec.
- Continuing education is required for recertification with the Canadian Orthoptic Council.

Osteopaths

- A bachelor's degree is required for admission to a doctor of osteopathy program.
- A four-year program in osteopathic medicine leading to a doctor of osteopathy degree
  and
  A one-year medical residency are required. These qualifications are usually obtained in the United States.
- A licence is required in New Brunswick, Quebec, Ontario, Saskatchewan, Alberta and British Columbia.

Additional information

- Chiropodist and podiatrist titles are used interchangeably in some provinces, although the title podiatrist is becoming more common. The use of the podiatrist job title does not necessarily refer to doctors of podiatric medicine (D.P.M.).
- Osteopaths may obtain a licence as general practitioners.
- Osteopaths have full scope of practice in New Brunswick, Quebec and Alberta, and limited scope of practice (to practise osteopathic manipulative medicine) in Ontario and Saskatchewan.
- There are two licences in British Columbia – one allows the doctor of osteopathy full scope of practice rights, while the other limits practice to osteopathic manipulative medicine.
- Orthoptists often work as part of a medical team which includes ophthalmologists, opticians and other ophthalmic medical personnel.
- Orthoptists may also be trained as ophthalmic technicians or technologists.

Classified elsewhere

- *Chiropractors* (3122)
- *General Practitioners and Family Physicians* (3112)
- *Midwives and Practitioners of Natural Healing* (3232)
- *Specialist Physicians* (3111)

3131 Pharmacists

Community pharmacists and hospital pharmacists compound and dispense prescribed pharmaceuticals and provide consultative services to both clients and health care providers. They are employed in community and hospital pharmacies, or they may be self-employed. Industrial pharmacists participate in the research, development, promotion and manufacture of pharmaceutical products. They are employed in pharmaceutical companies and government departments and agencies.

Examples of titles classified in this unit group

clinical pharmacist
community pharmacist
druggist
hospital pharmacist
industrial pharmacist
pharmacist
retail pharmacist

Main duties

Community pharmacists and hospital pharmacists perform some or all of the following duties:

- Check prescriptions for proper dosage
- Compound prescribed pharmaceutical products by calculating, measuring and mixing the quantities of drugs and other ingredients required and filling appropriate containers with correct quantity
- Dispense prescribed pharmaceuticals to customers or to other health care professionals and advise them on indications, contra-indications, adverse effects, drug interactions and dosage
- Maintain medication profiles of customers including registry of poisons and narcotic and controlled drugs
- Ensure proper preparation, packaging, distribution and storage of vaccines, serums, biologicals and other drugs and pharmaceuticals
- Order and maintain stock of pharmaceutical supplies
- Advise customers on selection and use of non-prescription medication
- May supervise and co-ordinate the activities of other pharmacists, pharmacy assistants, pharmacy technicians and other staff.

Industrial pharmacists perform some or all of the following duties:

- Participate in basic research for the development of new drugs
- Formulate new drug products developed by medical researchers
- Test new drug products for stability and to determine their absorption and elimination patterns
- Co-ordinate clinical investigations of new drugs
- Control the quality of drug products during production to ensure that they meet standards of potency, purity, uniformity, stability and safety
- Develop information materials concerning the uses, properties and risks of particular drugs
- Evaluate labelling, packaging and advertising of drug products
- Promote pharmaceutical products to health professionals.

Employment requirements

- A bachelor of science degree in pharmacy is required.
- Pharmacists also require practical training under the supervision of a pharmacist.
- Licensure is required in all provinces and territories for community and hospital pharmacists.

3131 Pharmacists

Classified elsewhere

- *Chemists* (2112)
- Chief of pharmacy (in 0311 *Managers in Health Care*)
- Drugstore Managers (in 0621 *Retail Trade Managers*)
- Pharmaceutical sales representatives (in 6221 *Technical Sales Specialists – Wholesale Trade*)
- Pharmacologists (in 2121 *Biologists and Related Scientists*)
- Pharmacy assistants (in 3414 *Other Assisting Occupations in Support of Health Services*)
- Pharmacy director (in 0311 *Managers in Health Care*)
- Pharmacy manager (in 0621 *Retail Trade Managers*)

3132 Dietitians and Nutritionists

Dietitians and nutritionists plan, organize, conduct and supervise programs in nutrition, diet and food service. They are employed in a variety of settings including hospitals, extended-care facilities, public health centres, the food and beverage industry, educational institutions, sports organizations and government, or they may be self-employed.

Examples of titles classified in this unit group

administrative dietitian
clinical dietitian
community dietitian
consultant dietitian
dietitian
nutrition and dietetics researcher
nutritionist
public health nutritionist
registered dietitian (RD)
registered nutritionist

Main duties

Dietitians and nutritionists perform some or all of the following duties:

- Develop, administer and supervise nutrition and food preparation and service programs in hospitals, nursing homes, schools, company cafeterias or similar settings
- Evaluate nutritional status of individuals and provide nutrition counselling and consulting to health professionals, dietetic interns, community groups, government, media and individuals
- Aid in the prevention and/or treatment of inadequate nutrition
- Plan, evaluate and conduct nutrition education programs and develop educational materials for various audiences
- Practice on an individual basis or as a member of an interdisciplinary team to determine nutritional needs of patients and to plan normal and therapeutic menus
- Study and analyze current scientific nutritional studies and conduct research to improve the nutritional value, taste, appearance and preparation of food.

Dietitians and nutritionists may specialize in such areas as administrative dietetics, clinical dietetics, community dietetics, public health dietetics or research dietetics.

Employment requirements

- Dietitians require a master's or bachelor's degree in dietetics, nutrition or a related field such as food and nutritional science or biochemistry
  and
  One to two years of supervised practical training.
- Licensure with a regulatory body is required in all provinces for dietitians.
- Membership in the national association, Dietitians of Canada, may be required for dietitians.
- Nutritionists usually require the same education and training as dietitians.
- Registration with the national association, Dietitians of Canada and/or a provincial regulatory body is available for nutritionists who have the same education and practical training as dietitians.

Additional information

- Dietitians and nutritionists may progress to management positions through additional experience.

Classified elsewhere

- Dietary technicians (in 3219 *Other Medical Technologists and Technicians (except dental health)*)
- Director of dietetics (in 0311 *Managers in Health Care*)
- *Food Service Supervisors* (6212)
- Home economists (in 4164 *Social Policy Researchers, Consultants and Program Officers*)

3141 Audiologists and Speech-Language Pathologists

Audiologists and speech-language pathologists diagnose, evaluate and treat human communication disorders including hearing, speech, language and voice disorders. Audiologists and speech-language pathologists are employed in hospitals, community and public health centres, extended care facilities, day clinics, rehabilitation centres and educational institutions, or may work in private practice.

Examples of titles classified in this unit group

audiologist
certified audiologist
clinical audiologist
educational audiologist
research audiologist
speech therapist
speech-language clinician
speech-language pathologist

Main duties

Audiologists perform some or all of the following duties:

- Administer audiometric tests and examinations to diagnose and evaluate the degree and type of patients' hearing-impairment
- Plan and implement habilitation/rehabilitation programs for patients, including selection, fitting and adjustment of hearing aid devices, teaching speech (lip) reading and providing counselling
- Establish personalized care plans working as a member of an interdisciplinary team
- Conduct research related to hearing
- May instruct students and other health care personnel.

Speech-language pathologists perform some or all of the following duties:

- Administer tests and examinations and observe patients to diagnose and evaluate speech, voice, resonance, language, cognitive-linguistic and swallowing disorders
- Plan and implement remedial programs to correct speech, language and voice disorders
- Establish group and personalized care plans working as a member of an interdisciplinary team
- Conduct research on speech and other communication disorders and on the development and design of diagnostic procedures and devices
- May instruct students and other health care personnel.

Employment requirements

- Audiologists require a master's degree in audiology.
- Speech-language pathologists require a master's degree in speech-language pathology.
- Registration with a regulatory body is required for audiologists and speech-language pathologists in New Brunswick, Quebec, Ontario, Manitoba and Saskatchewan.
- Membership in the national association, Canadian Association of Speech-Language Pathologists and Audiologists, may be required.
- In some jurisdictions, audiologists may be required to obtain a separate license to dispense hearing aids.

Additional information

- Progression into management positions such as chief audiologist or director of speech-language pathology is possible with experience.

Classified elsewhere

- Audiology and speech-language technical and assisting occupations (in 3235 *Other Technical Occupations in Therapy and Assessment*)
- *Managers in Health Care* (0311)
- Phoniatricians (in 3111 *Specialist Physicians*)

3142 Physiotherapists

Physiotherapists assess patients and plan and carry out individually designed treatment programs to maintain, improve or restore physical functioning, alleviate pain and prevent physical dysfunctioning in patients. Physiotherapists are employed in hospitals, clinics, industry, sports organizations, rehabilitation centres and extended care facilities, or they may work in private practice.

Examples of titles classified in this unit group

physical therapist
physiotherapist
registered physiotherapist
research physiotherapist

Main duties

Physiotherapists perform some or all of the following duties:

- Assess patients' physical abilities through evaluative procedures such as functional ability tests
- Establish treatment goals with the patient based on physical diagnoses
- Plan and implement programs of physiotherapy including therapeutic exercise, manipulations, massage, education, the use of electro-therapeutic and other mechanical equipment and hydro-therapy
- Evaluate effectiveness of treatment plans and modify accordingly
- Communicate with referring physician and other healthcare professionals regarding patients' problems, needs and progress
- Maintain clinical and statistical records and confer with other health care professionals
- Develop and implement health promotion programs for patients, staff and the community
- May conduct research in physiotherapy
- May provide consulting or education services.

Physiotherapists may focus their practice in particular clinical areas such as neurology, oncology, rheumatology, orthopedics, obstetrics, pediatrics, geriatrics, in the treatment of patients with cardiovascular and cardiopulmonary disorders, burns or sports injuries or in the field of ergonomics.

Employment requirements

- A university degree in physiotherapy and a period of supervised practical training are required.
- A license or registration with a regulatory body is required to practice physiotherapy in all provinces.
- Completion of the Physiotherapy National Exam, administered by the Alliance of Physiotherapy Regulatory Boards, may be required.

Additional information

- Progression to management positions, such as director of physiotherapy, is possible through experience and additional training.

Classified elsewhere

- Directors of physiotherapy (in 0311 *Managers in Health Care*)
- Physical rehabilitation technicians (in 3235 *Other Technical Occupations in Therapy and Assessment*)

3143 Occupational Therapists

Occupational therapists develop individual and group programs with people affected by illness, injury, developmental disorders, emotional or psychological problems and ageing to maintain, restore or increase their ability to care for themselves and to engage in work, school or leisure. They also develop and implement health promotion programs with individuals, community groups and employers. They are employed in health care facilities, schools, and by private and social services agencies, or they may be self-employed.

Examples of titles classified in this unit group

clinical occupational therapist
community occupational therapist
occupational therapist (O.T.)
occupational therapist, case manager
occupational therapist, research and development
occupational therapist rehabilitation consultant

Main duties

Occupational therapists perform some or all of the following duties:

- Analyse clients' capabilities and expectations related to life activities through observation, interview and formal assessments
- Develop intervention programs to address client's needs related to self-care, work and leisure activities
- Maintain client records
- Establish personalized care plans working as a member of an interdisciplinary team
- Consult and advise on health promotion programs to prevent disabilities and to maximize independent function in all activities of life
- May supervise support personnel and students and provide training.

Occupational therapists may specialize in working with specific populations such as children or adults, or persons with distinct problems such as dementia, traumatic brain injury and chronic pain, or provide special interventions such as return-to-work programs.

Employment requirements

- A university degree in occupational therapy including supervised fieldwork is required
  or
  Graduation from an occupational therapy program approved by the World Federation of Occupational Therapists (WFOT) is accepted in some provinces.
- Completion of the national certification examination may be required.
- Licensure with a regulatory body is required in all provinces except in British Columbia.
- Membership in the national association, Canadian Association of Occupational Therapists, is required in some provinces.
- Occupational therapists may obtain expertise in a particular area through additional training or experience.

Additional information

- Occupational therapists may progress to management or administrative positions through further training and experience.

Classified elsewhere

- Directors of occupational therapy (in 0311 *Managers in Health Care*)

3144 Other Professional Occupations in Therapy and Assessment

This unit group includes specialized therapists not elsewhere classified who use techniques such as art, athletic, dance, music or recreational therapy or remedial gymnastics to aid in the treatment of mental and physical disabilities. They are employed by establishments such as hospitals, rehabilitation centres, clinics, recreational centres, nursing homes, educational institutions, prisons and day-care facilities or may work in private practice.

Examples of titles classified in this unit group

art therapist
art therapy consultant
athletic therapist
dance therapist
dance-movement therapy researcher
movement therapist
music therapist
music therapy researcher
recreational therapist
remedial gymnast

Main duties

Therapists and other professionals in this unit group perform some or all of the following duties:

- Assess patients and review reports from physicians, psychiatrists, counsellors, teachers and others to determine patients' current and potential functioning level
- Prepare individualized and group treatment plans either independently or through an interdisciplinary team approach
- Implement treatment plan by carrying out specialized therapy sessions employing techniques such as art, athletic, dance, music or recreational therapy or remedial gymnastics
- Observe and analyze patients during treatment sessions
- Record observations, write progress reports and consult with other health care professionals to evaluate treatment plan
- Initiate, design and implement specialized therapy programs for the general patient population or in the community
- May conduct research in respective field of specialization.

Employment requirements

- Athletic therapists usually require a bachelor's degree in sport studies or exercise science with a specialization in athletic therapy or a college program in sports injury management.
- Art therapists require a graduate degree in art therapy.
- Dance therapists require a bachelor's degree in psychology or dance/movement therapy
  or
  An approved graduate program in dance/movement therapy.
- Music therapists usually require a bachelor's degree in music therapy.
- Recreational therapists usually require a bachelor's degree or college program in recreation with a specialization in therapeutic recreation.
- Remedial gymnasts require completion of an approved college program in remedial gymnastics.
- Supervised practical training is usually required for occupations in this unit group.
- Creative or technical ability in the field of specialization is usually required.
- Certification or membership with the appropriate national professional association or provincial counterpart may be required.

Additional information

- There is no mobility between the different occupations in this unit group.

3144 Other Professional Occupations in Therapy and Assessment

Classified elsewhere

- Exercise Therapists (in 4167 *Recreation, Sports and Fitness Program Supervisors and Consultants*)
- *Occupational Therapists* (3143)
- *Physiotherapists* (3142)
- Technical assistants in therapy and assessment (in 3235 *Other Technical Occupations in Therapy and Assessment*)

3151 Head Nurses and Supervisors

Head nurses and supervisors supervise and co-ordinate the activities of registered nurses, licensed practical nurses and other nursing personnel in the provision of patient care. They are employed in health care institutions such as hospitals, clinics and nursing homes and in nursing agencies.

Examples of titles classified in this unit group

head nurse
nursing care co-ordinator
nursing supervisor
patient care co-ordinator
psychiatric nursing supervisor
public health nursing supervisor

Main duties

Head nurses and supervisors perform some or all of the following duties:

- Supervise registered nurses, licensed practical nurses and other nursing personnel
- Evaluate patients' needs and ensure that required nursing care is delivered
- Set up and co-ordinate nursing services in conjunction with other health services
- Ensure quality nursing care is provided and appropriate administrative procedures are followed
- Assist in the establishment of unit policies and procedures
- Administer nursing unit budget and ensure that supplies and equipment are available
- Assist in the selection, evaluation and professional development of nursing personnel
- Collaborate on research projects related to nursing and medical care and multidisciplinary services
- May provide direct patient care.

Employment requirements

- Completion of a university, college or other approved registered nursing program is required.
- Courses in management studies such as the Nursing Unit Administration Course offered by the Canadian Hospital Association or other degree, diploma, certificate or studies in management or administration may be required.
- Registration as a registered nurse by a provincial or territorial regulatory body or, in Manitoba, Saskatchewan, Alberta and British Columbia, provincial registration as a registered psychiatric nurse is required.
- Clinical experience as a registered nurse is required.

Additional information

- Progression to management positions, such as director of nursing, is possible with experience.

Classified elsewhere

- Directors of nursing and nursing unit administrator (in 0311 *Managers in Health Care*)

3152 Registered Nurses

This unit group includes registered nurses, registered psychiatric nurses and graduates of a nursing program who are awaiting registration (graduate nurses). They provide direct nursing care to patients, deliver health education programs and provide consultative services regarding issues relevant to the practice of nursing. They are employed in a variety of settings including hospitals, nursing homes, extended-care facilities, rehabilitation centres, doctors' offices, clinics, community agencies, companies and private homes, or they may be self-employed.

Examples of titles classified in this unit group

clinical nurse
community health nurse
critical care nurse
graduate nurse
intensive care nurse
nurse researcher
nursing consultant
occupational health nurse
private duty nurse
registered nurse (R.N.)
registered psychiatric nurse (R.P.N.)

Main duties

General duty registered nurses perform some or all of the following duties:

- Assess patients to identify appropriate nursing interventions
- Collaborate with members of an interdisciplinary health team to plan, implement, co-ordinate and evaluate patient care in consultation with patients and their families
- Administer medications and treatments as prescribed by a physician or according to establish policies and protocols
- Monitor, assess, address, document and report symptoms and changes in patients' conditions
- Operate or monitor medical apparatus or equipment
- Assist in surgery and other medical procedures
- May supervise licensed practical nurses and other nursing staff
- May develop and implement discharge planning process on admission of patients
- May teach and counsel patients and their families on health-related issues in collaboration with other health care providers.

Registered nurses may specialize in areas such as surgery, obstetrics care, psychiatric care, critical care, pediatrics, geriatrics, community health, occupational health, emergency care, rehabilitation or oncology.

- Occupational health nurses develop and implement employee health education programs and provide registered nursing care in private businesses and industry.
- Community health nurses provide health education and registered nursing care in public health units and through home visits, manage complex home care cases, participate in community needs assessment and program development, conduct disease screening and deliver immunization programs.
- Psychiatric nurses provide nursing care, supportive counselling and life skills programming to patients in psychiatric hospitals, mental health clinics, long-term care and community-based settings.
- Nursing consultants provide consultative services to institutes, associations and health care organizations regarding issues and concerns relevant to the nursing profession and nursing practice.
- Nursing researchers engaged in research activities related to nursing are self-employed or are employed by hospitals, public and private organizations and governments.
- Clinical nurses provide leadership, advice and counsel on the provision of research-based care for specific patient groups within the care of particular health care organizations.

Employment requirements

Registered nurses

- Completion of a university, college or other approved registered nursing program is required.
- Additional academic training or experience is required to specialize in a specific area of nursing.
- A master's or doctoral degree in nursing is usually required for clinical nurse specialists, clinical nurses, nursing consultants and nursing researchers.
- Registration with a regulatory body is required in all provinces and territories.

Registered psychiatric nurses

- Completion of a college or other registered psychiatric nursing program is required.
- Registration with a regulatory body is required in Manitoba, Saskatchewan, Alberta and British Columbia.

Additional information

- Nurses trained exclusively as registered psychiatric nurses (RPN) are recognized only in Manitoba, Saskatchewan, Alberta and British Columbia. In all other provinces and territories, registered nurses (RN) may work as psychiatric nurses without separate registration.
- Registered nurses may progress to supervisory and managerial positions with experience.

Classified elsewhere

- *Head Nurses and Supervisors* (3151)
- *Licensed Practical Nurses* (3233)
- Nursing service managers (in 0311 *Managers in Health Care*)
- Registered practical nurses (in 3233 *Licensed Practical Nurses*)

3211 Medical Laboratory Technologists and Pathologists' Assistants

Medical laboratory technologists conduct medical laboratory tests, experiments and analyses to assist in the diagnosis, treatment and prevention of disease. They are employed in medical laboratories in hospitals, private clinics, research institutions and universities. Pathologists' assistants assist at autopsies and examinations of surgical specimens or perform autopsies under a pathologist's supervision. They are usually employed in hospitals. Medical laboratory technologists who are also supervisors are included in this unit group.

Examples of titles classified in this unit group

clinical immunology technologist
cytology technologist
cytotechnologist
histology technologist
immunohematology technologist
medical laboratory technologist
medical technologist
pathologist's assistant

Main duties

Medical laboratory technologists perform some or all of the following duties:

- Conduct chemical analyses of blood, urine, cerebro-spinal and other body fluids
- Study blood cells and other tissue to determine their relation to various physiological and pathological conditions
- Prepare tissue sections for microscopic examinations using techniques to demonstrate special cellular tissue elements or other characteristics
- Establish procedures for the analysis of specimens and for medical laboratory experiments
- Perform blood group, type and compatibility tests for transfusion purposes
- May supervise and train other medical laboratory technologists and other medical laboratory workers
- May perform the duties of a pathologist's assistant in some hospitals.

Medical laboratory technologists may specialize in areas such as clinical chemistry, clinical microbiology, hematology, histotechnology, immunohematology and cytotechnology.

Pathologists' assistants perform some or all of the following duties:

- Prepare for autopsies by obtaining patients' medical records and arranging for radiographic examinations
- Assist with or perform autopsies and surgical specimen examinations under pathologists' supervision
- Dissect, examine, weigh and photograph organs and specimens, collect tissue specimens for chemical analysis and record findings
- May prepare bodies for release to funeral homes following completion of autopsies
- May train junior resident pathologists and train and supervise morgue attendants
- May perform the duties of a medical laboratory technologist in some hospitals.

Employment requirements

- Medical laboratory technologists require a bachelor of science or medical laboratory science degree
  or
  A two or three-year college program in medical laboratory technology
  and
  A period of supervised practical training.
- Registration with a regulatory body is required in New Brunswick, Quebec, Ontario, Saskatchewan and Alberta.
- Certification by the Canadian Society of Medical Laboratory Science is available for medical laboratory technologists and is usually required by employers.
- Pathologists' assistants require a bachelor of science degree
  or
  Training and experience as a registered nurse, licensed practical nurse or medical laboratory technologist
  and
  Specialized on-the-job training.
- Certification by the Canadian Society of Medical Laboratory Science may be required for pathologists' assistants.

Classified elsewhere

- *Medical Laboratory Technicians* (3212)
- Physical and life science technologists in non-medical laboratories (in 221 *Technical Occupations in Physical Sciences* and 222 *Technical Occupations in Life Sciences*)

3212 Medical Laboratory Technicians

Medical laboratory technicians conduct routine medical laboratory tests and set up, clean and maintain medical laboratory equipment. They are employed in medical laboratories in hospitals, clinics, research institutes and universities and in government research laboratories.

Examples of titles classified in this unit group

medical laboratory aide
medical laboratory assistant
medical laboratory technician
phlebotomist
phlebotomy aide

Main duties

Medical laboratory technicians perform some or all of the following duties:

- Collect blood or other samples from patients
- Receive tissues samples from patients
- Log patient samples and prepare them for testing
- Set up medical laboratory equipment
- Conduct routine laboratory tests and sample analyses
- Clean and maintain medical laboratory and medical laboratory equipment.

Employment requirements

- Completion of secondary school and on-the-job training
  or
  Completion of a 6- to 14-month program for medical laboratory technicians/assistants is required.
- Combined laboratory and X-ray technicians require completion of a combined laboratory X-ray technology program.

Additional information

- Training as a licensed practical nurse, medical technician or in a related occupation is usually required for phlebotomist or phlebotomy aides.

Classified elsewhere

- *Medical Laboratory Technologists and Pathologists' Assistants* (3211)

3213 Veterinary and Animal Health Technologists and Technicians

Veterinary and animal health technologists and technicians provide technical support to veterinarians by caring for animals and assisting in the diagnosis and treatment of animal health disorders. They are employed in veterinary clinics, animal hospitals, animal shelters, zoos, animal research laboratories, government and pharmaceutical companies.

Examples of titles classified in this unit group

animal health technician
animal health technologist
laboratory animal technician
veterinarian assistant
veterinary technician
veterinary technologist

Main duties

Veterinary and animal health technologists and technicians perform some or all of the following duties:

- Handle, restrain and care for animals undergoing treatment and surgery
- Produce radiographs, collect samples and perform other laboratory tests to assist in diagnosis of animal health problems
- Assist veterinarian with animals before, during and following surgery, and by preparing surgical equipment, administering and monitoring anaesthetics and cleaning up after surgery
- Prepare and administer medications and vaccines under direction of veterinarian
- Administer treatments as prescribed by a veterinarian
- Conduct specialized procedures such as animal identification and hoof trimming
- Counsel clients on animal health care
- Conduct and assist in laboratory research
- May perform a variety of office management and clerical duties.

Employment requirements

- Completion of a two- or three-year animal health/veterinary technology college program is required.
- Successful completion of the Veterinary Technologist National Examination (VTNE) may be required in some employment settings.
- Registration with provincial animal health technologists' or veterinary technicians'/technologists' associations is available, but voluntary in all provinces.

Additional information

- With experience, veterinary and animal health technologists and technicians may progress to supervisory positions.

Classified elsewhere

- *Pet Groomers and Animal Care Workers* (6483)

3214 Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists

Respiratory therapists assist physicians in the diagnosis, treatment and care of patients with respiratory and cardiopulmonary disorders. They are employed in hospitals, medical clinics, health units, extended-care facilities, public health centres and respiratory home care companies. Clinical perfusionists provide technical support to patients undergoing cardiac surgery and patients requiring cardio-respiratory support. Cardiopulmonary technologists assist physicians in the technical aspects of diagnosis and treatment of cardiovascular and pulmonary disease. Clinical perfusionists and cardiopulmonary technologists are primarily employed in hospitals. Supervisors and instructors of respiratory therapists, clinical perfusionists and cardiopulmonary technologist are included in this unit group.

Examples of titles classified in this unit group

cardiopulmonary technologist
cardiovascular perfusion supervisor
cardiovascular perfusionist
certified clinical perfusionist (CCP)
chief respiratory technologist
clinical perfusionist
perfusionist
registered respiratory therapist (RRT)
respiratory therapist
respiratory therapy clinical instructor

Main duties

Respiratory therapists perform some or all of the following duties:

- Perform diagnostic tests, such as arterial blood gas analysis and cardiopulmonary functions tests
- Operate and monitor respiratory equipment to administer treatments such as oxygen, oxygen-air mixtures, humidified air or medications
- Operate, monitor, maintain and test a variety of diagnostic and therapeutic equipment
- Assess patients and perform or assist with interventions such as airway maintenance, line insertions, inductions and intubations
- Perform artificial respiration and external cardiac massage
- Assist with transport of high-risk patients
- Supervise and train students and other respiratory therapists
- Participate in home care programs for chronic respiratory patients and provide patient and family education
- Participate in research related to cardiac and pulmonary disorders.

Respiratory therapists may specialize in areas such as anaesthesia, critical care, pediatrics, cardiopulmonary diagnostics and respiratory home care.

Clinical perfusionists perform some or all of the following duties:

- Assemble, maintain and operate extracorporeal circulation equipment, intra-aortic balloon pumps and other heart assist devices to support or temporarily replace patients' cardiopulmonary functions during open-heart surgery
- Administer blood products, drugs and other substances through heart-lung machines and other devices as directed by cardiac surgeons and anaesthetists
- Monitor vital signs to maintain patients' physiological functions during cardiopulmonary surgery
- Supervise and train student clinical perfusionists and other clinical perfusionists.

Cardiopulmonary technologists perform some or all of the following duties:

- Perform diagnostic tests, such as pulmonary function and asthma stress, or assist physicians with cardiac and cardiopulmonary stress tests and bronchoscopies
- Determine patients' blood characteristics such as activated clotting time and oxygen saturation
- Operate, monitor, maintain, calibrate and test diagnostic and therapeutic equipment
- Monitor patient and advise physician of any changes in patient condition
- Prepare medications and administer inhaler and other treatments under supervision of cardiologist

- Provide information and care for patients during tests
- Assist with the preparation of cardiac catheterization room, prepare specialized catheters and assist cardiologists during catheterization
- Perform analysis, programming and monitoring of implanted devices such as pacemakers and defibrillators during surgery
- Supervise and train students and other cardiopulmonary technologists
- Provide technical support for research.

Employment requirements

- Respiratory therapists require the completion of a two- to three-year college, hospital or university degree program in respiratory therapy, including clinical training.
- Clinical perfusionists require the completion of a respiratory therapy or registered nursing program with a minimum of one year of work experience as a respiratory therapist or registered nurse
  and
  Completion of a college or university program in clinical perfusion, including clinical training.
- Cardiopulmonary technologists require a minimum of a diploma in an allied health discipline such as respiratory therapy, nursing diploma or degree, or a degree in a related science and training through a post-diploma program or supervised on-the-job clinical training.
- Licensing is required for respiratory therapists in Quebec, Ontario, Manitoba and Alberta.
- Registration with the Canadian Association of Cardio-Pulmonary Technologists (C.A.C.P.T.) may be required.

Additional information

- Supervisory and instructor positions in this unit group require experience in their respective fields as a respiratory therapist, clinical perfusionist or cardiopulmonary technologist.

Classified elsewhere

- *Other Medical Technologists and Technicians (Except Dental Health)* (3219)
- *Other Technical Occupations in Therapy and Assessment* (3235)

3215 Medical Radiation Technologists

This unit group includes technologists who operate radiographic and radiation therapy equipment to administer radiation treatment and produce images of body structures for the diagnosis and treatment of injury and disease. They are employed in hospitals, cancer treatment centres, clinics and radiological laboratories. Medical radiation technologists who are supervisors or instructors are included in this unit group.

Examples of titles classified in this unit group

clinical instructor, radiation therapy
mammography technician
nuclear medicine technologist
radiation oncology technologist
radiation therapist
radiation therapy technologist (RTT)
radiological technologist
radiotherapy technician
supervisor, nuclear medicine technologists
X-ray technician

Main duties

Radiological technologists perform some or all of the following duties:

- Operate X-ray, radiographic and fluoroscopic equipment, computerized tomography (CT) scanners, mammography units and magnetic resonance imaging (MRI) scanners to produce radiographs or anatomic images of the human body for the diagnosis by radiologists of disease or injury
- Record and process patient data
- Perform basic verification and quality control checks on radiographic and film processing equipment
- Provide appropriate care for the patient during the radiographic examination
- Apply radiation protection measures
- May train and supervise student radiographers or supervise other radiological technologists.

Radiological technologist may specialized in areas such as computerized tomography, angiography, mammography, magnetic resonance imaging, interventional radiology, dosimetry, stereotaxy or brachytherapy.

Nuclear medicine technologists perform some or all of the following duties:

- Prepare radiopharmaceuticals, such as radionuclides and other materials and administer them to patients or to biological samples
- Operate radiation detection equipment, such as gamma cameras, scanners, scintillation counters, tomodensitomiters and ionization chambers, to acquire data for use by nuclear medicine physicians in the diagnosis of disease
- Perform diagnostic procedures using radioactive materials on biological specimens, such as blood, urine and faeces
- Record and process results of procedures
- Check equipment to ensure proper operation
- Provide appropriate care for the patient during the examination
- Apply radiation protection measures
- May train and supervise student nuclear medicine technologists or supervise other nuclear medicine technologists.

Radiation therapists perform some or all of the following duties:

- Operate linear accelerators, cobalt 60, X-ray and other radiation therapy equipment to administer radiation treatment prescribed by radiation oncologists
- Check radiation therapy equipment to ensure proper operation
- Assist radiation oncologists and clinical physicists with preparation of radiation treatment plan
- Assist in the preparation of sealed radioactive materials such as cobalt, radium, cesium and isotopes and the construction of devices such as plaster casts and acrylic moulds to assist with administration of radiation treatment
- Monitor the patient's physical and psychological well-being during the entire course of treatment
- Advise the patient regarding side effects of radiation
- May train and supervise student radiotherapy technologists or supervise other radiotherapy technologists.

3215 Medical Radiation Technologists

Employment requirements

- Completion of a two- to three-year college, hospital school or other approved program in diagnostic radiography (for radiological technologists), nuclear medicine technology (for nuclear medicine technologists) or radiation therapy (for radiation therapists)
  or
  A bachelor of health sciences in radiography, nuclear medicine or radiation therapy
  and
  A period of supervised practical training are required.
- Licensure with a regulatory body is required in all provinces.
- Certification by the Canadian Association of Medical Radiation Technologists is required in all provinces except Quebec.
- Experience as a medical radiation technologist is required for supervisors and instructors.

Additional information

- There is no mobility between the three types of medical radiation technologists without further training.

Classified elsewhere

- Other medical technologists and technicians (in 321 *Medical Technologists and Technicians (Except Dental Health)*)

3216 Medical Sonographers

Medical sonographers operate ultrasound equipment to produce and record images of various parts of the body to aid physicians in monitoring pregnancies and in diagnosing cardiac, ophthalmic, vascular and other medical disorders. They are employed in clinics and hospitals. Medical sonographers who are supervisors or instructors are included in this unit group.

Examples of titles classified in this unit group

diagnostic medical sonography instructor
medical sonographer
medical sonographers supervisor
registered diagnostic medical sonographer (RDMS)
ultrasound technologist

Main duties

Medical sonographers perform some or all of the following duties:

- Operate ultrasound imaging equipment that transmits high frequency sound pulses through the body to produce images of those parts of the body requiring examination
- Monitor examination by viewing images on video screen, to evaluate quality and consistency of diagnostic images, and make adjustments to equipment, as required
- Record, store and process scanned images by using camera unit connected to ultrasound equipment
- Observe and care for patients throughout examinations to ensure patient safety and comfort
- Prepare examination reports for physicians to aid in the monitoring of pregnancies and the diagnosis of cardiac, abdominal, ophthalmic, vascular and other disorders
- Perform quality control checks on ultrasound equipment to ensure proper operation and perform minor repairs and adjustments as required
- May supervise and train student and other medical sonographers.

Medical sonographers may specialize in abdominal, cardiac, cerebral, obstetrical and gynaecological, ophthalmic, intraluminal or peripheral vascular sonography. They may also specialize in adult or pediatric echocardiography or neurosonology.

Employment requirements

- Completion of a training program in a related field such as diagnostic radiography, nuclear medicine or nursing
  and
  Completion of a one-year college or hospital-based program in diagnostic medical sonography and supervised practical training are required.
- Certification examinations by the American Registry of Diagnostic Medical Sonographers are usually required by employers.
- Registration with the Canadian Society of Diagnostic Medical Sonographers or a provincial counterpart is available and may be required by employers.

Additional information

- The Canadian Society of Diagnostic Medical Sonographers recognizes the certifying examinations of the American Registry of Diagnostic Medical Sonographers.

Classified elsewhere

- Other technologists and technicians who operate diagnostic medical equipment (in 3218 *Electroencephalographic and Other Diagnostic Technologists, n.e.c.*)

3217 Cardiology Technologists

Cardiology technologists operate electrocardiogram and other electronic equipment to record cardiac activity of patients to aid in the diagnosis and treatment of heart disease. They are employed in hospitals and clinics. Cardiology technologists who are supervisors or instructors are included in this unit group.

Examples of titles classified in this unit group

cardiac stress technologist
cardiology supervisor
cardiology technologist
electrocardiographic (ECG) technologist
electrocardiography technologist

Main duties

Cardiology technologists perform some or all of the following duties:

- Operate electrocardiogram and other electronic equipment to record cardiac activity of patients
- Perform cardiovascular procedures and tests, such as electrocardiograms, exercise tolerance tests, ambulatory monitoring and scanning of tapes, pacemaker analysis and follow-up, and echocardiogram
- Record and assess cardiac activity and provide preliminary reports of tests
- Provide patients with care during procedures and tests
- Prepare reports for interpretation by cardiologists
- Reprogram pacemakers according to required standards
- Check cardiology equipment to ensure proper operation
- May analyze test and notify physician or other health care professionals
- May administer certain drugs under direct supervision of physician
- May document and record pacemaker implant threshold measurements under direct supervision of cardiac surgeon
- May supervise and train students, other cardiology technologists and nurses.

Employment requirements

- Completion of a two-year college diploma in cardiology technology

  and

  Supervised practical training are required.
- Registration with the Canadian Society of Cardiology Technologists is required in all provinces except in Quebec.

Classified elsewhere

- Cardiovascular perfusionists (in 3214 *Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists*)
- Other technologists and technicians who operate diagnostic medical equipment (in 3218 *Electroencephalographic and Other Diagnostic Technologists, n.e.c.*)

3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.

This unit group includes other diagnostic technologists not elsewhere classified who operate electroencephalographic and other diagnostic equipment to assist physicians in diagnosing diseases, injuries and abnormalities. Electroencephalographic and other diagnostic technologists who are supervisors or instructors are included in this unit group. They are employed in clinics, hospitals and medical laboratories.

Examples of titles classified in this unit group

electroencephalographic (EEG) technologist
electromyography (EMG) technologist
electroneurodiagnostic (END) technologist
electroneurophysiology (ENP) technologist
evoked potential (EP) technologist
neuroelectrophysiology technologist

Main duties

Electroencephalographic (EEG) technologists perform some or all of the following duties:

- Review patient's case history and assess nature of problem to determine processes and tests required
- Attach diagnostic equipment to patients and ensure patients' comfort and safety
- Operate diagnostic equipment such as electroencephalographs and evoked potential equipment to record the electrical activity of the brain, cranial and central nervous system
- Take notes on the recorded graph to identify interference such as poor electrode contact or patient movement
- Prepare recordings and reports for interpretation by neurologists
- Check, calibrate and perform routine maintenance to diagnostic equipment
- Train and supervise students, technicians or other electroencephalographic technologists.

Electromyography (EMG) technologists perform some or all of the following duties:

- Review patient's case history and assess nature of problem to determine processes and tests required
- Attach electromyographic equipment to patients and ensure patient's comfort and safety
- Operate electromyographic equipment to conduct electrophysiological nerve conduction velocity tests and to assist physicians in conducting electrophysiological tests such as muscle strength and repetitive stimulation
- Prepare recordings and reports of findings for physicians to aid in the diagnosis of neuromuscular disorders
- Check, calibrate and perform routine maintenance of equipment
- Train and supervise students, technicians or other electromyography technologists.

Employment requirements

- Completion of secondary school and additional specialized training is required for electroencephalographic and other diagnostic technologists in this unit group.
- Electroencephalographic technologists require completion of a two-year college or hospital-based program in electrophysiology technology
  and
  Supervised practical training.
- Registration with the Canadian Board of Electroencephalograph Technologists is available for electroencephalographic technologists and is usually required by employers.
- Electromyography technologists require two years of supervised practical training.
- Registration with the Canadian Society of Clinical Neurophysiologists/EMG Section is available for electromyography technologists and is usually required by employers.
- Electroencephalographic technologists who operate evoked potential equipment may require registration with the American Board of Registration of Electroencephalographic and Evoked Potential Technologists.

Classified elsewhere

- *Cardiology Technologists* (3217)
- *Medical Radiation Technologists* (3215)
- *Medical Sonographers* (3216)
- Other medical technologists (in 3219 *Other Medical Technologists and Technicians (Except Dental Health)*)

3219 Other Medical Technologists and Technicians (Except Dental Health)

This unit group includes medical technologists and technicians not elsewhere classified, such as dietary technicians, ocularists, prosthetists, orthotists, prosthetic technicians and orthotic technicians. Dietary technicians are employed in health care and commercial food service establishments such as hospitals, extended care facilities, nursing homes, schools, cafeterias and fast food outlets. Ocularists are employed in custom ocular prosthetic laboratories, or they may be self-employed. Prosthetists, orthotists and prosthetic and orthotic technicians are employed in hospitals, clinics, prosthetics and orthotics laboratories, and prosthetic device manufacturing companies. Prosthetists and orthotists may also be self-employed.

Examples of titles classified in this unit group

dietary technician
food and nutrition technician
ocularist
ocularist technician
orthotic technician
orthotist
prosthetic technician
prosthetist

Main duties

The following is a summary of the Main duties for some occupations in this unit group:

- Dietary technicians assist dietitians or nutritionists to plan and supervise food service operations; plan menus and diet for individuals or groups under the direction of a dietitian or nutritionist; assist in the supervision of personnel who prepare and serve food; help patients select menu items; and assist dietitians with research in food, nutrition and food service systems.
- Ocularists design, fabricate and fit ocular prostheses and conformers, and may design and fabricate implants; paint the iris and pupil of artificial eyes; clean and restore ocular prostheses; advise patients concerning the loss of depth perception and the care and use of ocular prostheses; repair and maintain fabrication and laboratory equipment; and consult with ophthalmologists concerning insertion of ocular prostheses.
- Prosthetists and orthotists design, fabricate and fit prosthetic and orthotic appliances such as artificial limbs, braces or supports; interpret physicians' specifications and examine and measure patients to develop working sketches of appliances; make and modify plaster casts of areas to receive prostheses or orthoses; fit, adjust and repair appliances; advise patients in the use and care of prostheses and orthoses; and supervise and direct the activities of prosthetic and orthotic technicians.
- Prosthetic and orthotic technicians assemble or build prosthetic and orthotic appliances according to drawings, measurements and plaster casts using a variety of materials such as metals, plastics and leathers; repair, rebuild and modify prosthetic and orthotic appliances or orthopaedic footwear; and may take the body or limb measurements of patients.

Employment requirements

- Dietary technicians require completion of a two- to three-year college program in dietary technology and supervised practical training.
- Ocularists require completion of the ocularist training program of the American Society of Ocularists and supervised practical training

  or

  A five-year supervised practical training program under a certified ocularist.
- Certification by the National Examining Board of Ocularists is usually required.
- Prosthetists and orthotists require a two-year college program in prosthetics and orthotics technology and three years of supervised practical training.
- Certification by the Canadian Board of Certification of Prosthetists and Orthotists (CBCPO) may be required.
- Prosthetic and orthotic technicians usually require a two- to three- year college program in prosthetics and orthotics and one to two years of supervised practical training

  or

  Completion of secondary school and up to four years of supervised practical training under a certified prosthetist or orthotist.

- Registration with the Canadian Association of Prosthetists and Orthotists (CAPO) may be required.

Additional information

- Prosthetic and orthotic technicians may become certified prosthetists or orthotists with an additional two years of experience as a registered prosthetic or orthotic technician and completion of certification examinations by the Canadian Board of Certification of Prosthetists and Orthotists.

Classified elsewhere

- Other health care technologists and technicians (in 321 *Medical Technologists and Technicians (except Dental Health)*)
- Technologists or technicians in therapy and assessment (in 3235 *Other Technical Occupations in Therapy and Assessment*)

3221 Denturists

Denturists examine patients and design, construct and repair removable dentures. Most denturists work in private practice.

Examples of titles classified in this unit group

dental mechanic
denturist
denturologist

Main duties

Denturists perform some or all of the following duties:

- Measure patients' jaws to determine size and shape of dentures required
- Make impressions of patients' teeth, gums and jaws
- Construct dentures or direct other workers to construct dentures
- Fit and modify new dentures
- Repair dentures
- Reline and rebase dentures
- Fabricate mouth protectors, anti-snoring prostheses and removable prostheses on implants
- May prepare partial dentures.

Employment requirements

- Completion of a two- or three-year college program in denturism/denturology is required.
- An internship in a registered denture clinic may be required.
- Licensing by a provincial or territorial regulatory body is required except in Prince Edward Island.

Classified elsewhere

- *Dental Assistants* (3411)
- *Dental Technologists, Technicians and Laboratory Bench Workers* (3223)
- *Dental Therapists and Dental Hygienists* (3222)
- *Dentists* (3113)

3222 Dental Hygienists and Dental Therapists

Dental hygienists provide dental hygiene treatment and information related to the prevention of diseases and disorders of the teeth and mouth. They are employed in dentists' offices, hospitals, clinics, educational institutions, government agencies and private industry. Dental therapists carry out limited dental services related to the prevention and treatment of diseases and disorders of the teeth and mouth. They are employed by the federal government and the provincial governments to provide services in rural and remote communities.

Examples of titles classified in this unit group

dental hygienist
dental nurse
dental therapist

Main duties

Dental hygienists perform some or all of the following duties:

- Conduct an initial dental assessment and consult with dentists on patient care
- Take dental impressions
- Instruct patients regarding oral hygiene procedures
- Clean and stimulate the gums to prevent gum disease
- Remove stains and deposits from teeth to prevent tooth and root decay
- Apply fluoride treatment
- Take and develop X-rays
- May perform restorative and orthodontic procedures under the direction of a dentist
- May supervise dental assistants in their health care functions.

Dental therapists perform some or all of the following duties:

- Conduct dental assessments and consult with dentist on patient care
- Take dental impressions
- Take and develop X-rays
- Remove stains and deposits from teeth to prevent tooth and root decay
- Apply fluoride treatment
- Instruct patients regarding oral hygiene procedures
- Supervise dental assistants in their health care functions
- May drill and fill cavities, extract teeth and replace portions of tooth crown.

Employment requirements

- Dental hygienists are required to complete a college program ranging from one to three years, or other approved program in dental hygiene recognized by the governing board within the province or territory of residence.
- Dental therapists are required to complete the two-year dental therapy diploma program at the National School of Dental Therapy in Prince Albert, Saskatchewan, offered by Health Canada.
- Licensing by the appropriate provincial or territorial regulatory body is required for dental hygienists.
- Licensure is required for dental therapists in Newfoundland, Saskatchewan, the Yukon and the Northwest Territories.

Classified elsewhere

- *Dental Assistants* (3411)
- *Dental Technologists, Technicians and Laboratory Bench Workers* (3223)
- *Dentists* (3113)
- *Denturists* (3221)

3223 Dental Technologists, Technicians and Laboratory Bench Workers

Dental technologists and technicians design, prepare and fabricate dentures and dental devices as prescribed by dentists and other specialists. Dental laboratory bench workers assist dental technologists and technicians in preparing and fabricating dentures and other dental devices. They are employed in dental laboratories. Supervisors of dental technologists and technicians are also included in this unit group.

Examples of titles classified in this unit group

ceramic denture moulder
dental laboratory bench worker
dental technician
dental technician supervisor
dental technologist
denture finisher
denture wax pattern former
orthodontic band maker
registered dental technician
registered dental technologist

Main duties

Dental technologists and technicians perform some or all of the following duties:

- Design, fabricate or repair dental devices including full or partial dentures, crowns, bridges, inlays, onlays, clasps and bands, and implants
- May consult with dentists or other specialists on problematic dental cases
- May train and supervise other dental technicians or dental laboratory bench workers in fabricating dentures and other dental devices
- May perform supervisory and administrative functions for the dental laboratory.

Dental laboratory bench workers perform some or all of the following duties:

- Prepare plaster models and moulds from dental impressions
- Prepare wax bite-blocks and impression trays
- Cast gold or metal alloys for bridges and denture bases
- Pack plastic material in moulds to form full or partial dentures
- Mould wax over denture set-up to form full contours of artificial gums
- Make orthodontic bands from gold, silver, stainless steel or other metals
- Finish metal framework of dentures and polish and buff dentures to obtain natural finish.

Employment requirements

- Dental technologists and technicians are required to complete a college program in dental technology
  or
  Four or more years of on-the-job training under the supervision of a registered dental technologist or technician.
- Registration with a regulatory body is required for dental technologists and technicians in all provinces except in Manitoba.
- Dental laboratory bench workers usually require secondary school and up to two years of on-the-job training.

Additional information

- Dental laboratory bench workers may progress to dental technologists and technicians positions with training, experience and registration.

Classified elsewhere

- *Dental Assistants* (3411)
- *Dental Therapists and Dental Hygienists* (3222)
- *Denturists* (3221)

3231 Opticians

Opticians fit clients with prescription eyeglasses or contact lenses, assist clients in the selection of eyeglass frames, arrange for the production of eyeglasses or contact lenses and mount lenses in eyeglass frames. They are employed in optical retail outlets or other establishments with optical dispensing departments, or they may be self-employed. Student opticians and opticians who are managers of optical retail outlets are included in this group.

Examples of titles classified in this unit group

contact lens fitter
contact lens technician
dispensing optician
ophthalmic dispenser
optician

Main duties

Opticians perform some or all of the following duties:

- Obtain specifications for eyeglasses or contact lenses from a prescription prepared by an ophthalmologist or optometrist or by analyzing the client's eyeglasses or contact lenses and by measuring client's eye curvature, pupillary distance and bridge width, using optical measuring devices
- Assist clients in selecting eyeglasses by advising on lens materials, frames, tints and anti-reflection coating
- Advise on use and care of contact lenses
- Arrange for grinding and polishing of lenses or grind and polish lenses
- Cut and edge lenses and fit lenses into frames
- Adjust finished eyeglasses to fit client
- May supervise or manage the activities of other opticians or student opticians.

Employment requirements

- Completion of a two- or three-year college program in ophthalmic dispensing, which includes an apprenticeship
  or
  Completion of an Optician's Guild two-year ophthalmic dispensing correspondence course including practical experience is required.
- Completion of an Optician's Guild two-year contact lens technician correspondence course may also be required for contact lens technicians.
- Licensing by a regulatory body is required in all provinces.

Classified elsewhere

- Managers of optical retail outlets or of optical dispensing departments who are not opticians (in 0621 *Retail Trade Managers*)
- Ophthalmologists (in 3111 *Specialist Physicians*)
- Optical lab technicians (in 3414 *Other Aides and Assistants in Support of Health Services*)
- *Optometrists* (3121)

3232 Midwives and Practitioners of Natural Healing

Midwives provide full-course care to women and their babies during pregnancy, labour, birth and the post-natal period. They are employed in hospitals, birthing centres and private practice. Practitioners of natural healing provide alternative forms of health care to patients. They are employed by clinics, health clubs, spas or health food stores, or they may work in private practice.

Examples of titles classified in this unit group

acupuncturist
Chinese medical practitioner
herbalist
herborist
homeopath
homeopathist
midwife
reflexologist
rolfer

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Midwives provide full-course care to women and their babies during pregnancy, labour, birth and the post-natal period including monitoring the health of mother and baby, counselling and providing advice on diet, conducting routine deliveries and assisting in complicated deliveries.
- Acupuncturists diagnose the diseases, physiological disorders and injuries of patients and treat them by the insertion of acupuncture needles or through the use of heat, pressure, electric current or rays of light.
- Chinese medical practitioners diagnose the diseases, physiological disorders and injuries of patients and treat them using raw herbs and other medicines, dietary supplements or acupuncture.
- Herbalists advise patients on the use of herbs for the treatment of conditions such as arthritis, rheumatism, asthma, skin disorders and stomach ailments and may sell these herbs.
- Homeopaths diagnose illnesses and treat them by administering, in chemical or herbal form, a small dosage of the illness itself or by suggesting lifestyle changes.
- Reflexologists apply gentle finger pressure to specific spots on the clients' hands or feet to promote relaxation and better health and well-being.
- Rolfers systematically manipulate various parts of the body such as the legs and shoulders in order to realign the structure of the body and reduce chronic pain and stress.

Employment requirements

- Midwives require appropriate training which may be acquired through a university degree in midwifery or its equivalent and a period of supervised practical training.
- Registration with a regulatory body is required for midwives in Ontario, Alberta and British Columbia.
- Acupuncturists require completion of a training program in acupuncture, may require some university undergraduate studies in science or training in a related health care discipline and may also require work experience under the supervision of a registered acupuncturist.
- Registration with a regulatory body is required for acupuncturists in Quebec, Alberta and British Columbia.
- Chinese medical practitioners usually require completion of a program in traditional Chinese medicine which is available from certain medical schools abroad
  or
  Some post-secondary education and a diploma in traditional Chinese medicine from a private institute.
- All other occupations in this unit group usually require completion of courses or training programs specific to their occupations and some supervised practical training.

Additional information

- Chinese medical practitioners may practise as acupuncturists.

Classified elsewhere

- Massage therapists (in 3235 *Other Technical Occupations in Therapy and Assessment*)
- Naturopathic and osteopathic physicians (in 3123 *Other Professional Occupations in Health Diagnosing and Treating*)

3233 Licensed Practical Nurses

Licensed practical nurses provide nursing care usually under the direction of medical practitioners, registered nurses, or other health team members. They are employed in hospitals, nursing homes, extended-care facilities, rehabilitation centres, doctors' offices, clinics, companies, private homes and community health centres. Operating room technicians are included in this unit group.

Examples of titles classified in this unit group

certified nursing assistant (CNA)
licensed nursing assistant
licensed practical nurse (L.P.N.)
operating room technician
registered nursing assistant (R.N.A.)
registered practical nurse (R.P.N.)

Main duties

Licensed practical nurses perform some or all of the following duties:

- Provide nursing services, within defined scope of practice, to patients based on patient assessment and care planning procedures
- Perform nursing interventions such as taking vital signs, applying aseptic techniques including sterile dressing, ensuring infection control, monitoring nutritional intake and conducting specimen collection
- Administer medication and observe and document therapeutic effects
- Provide pre-operative and post-operative personal and comfort care
- Monitor established respiratory therapy and intravenous therapy
- Monitor patients' progress, evaluate effectiveness of nursing interventions and consult with appropriate members of healthcare team
- Provide safety and health education to individuals and their families.

Operating room technicians perform some or all of the following duties:

- Prepare patients for surgery by washing, shaving and sterilizing the patients' operative areas
- Assist in surgery by laying out instruments, setting up equipment, assisting surgical teams with gowns and gloves and passing instruments to surgeons
- Clean and sterilize the operating room and instruments.

Employment requirements

- Completion of a vocational, college or other approved program for licensed practical nurses is required.
- Registration with a regulatory body is required in all provinces and territories.
- Completion of the Canadian Practical Nurse Registration Examination is required in all provinces and territories except Quebec.
- Operating room technicians require either additional academic training in operating room techniques or on-the-job training.

Additional information

- Working under the direction of a medical practitioner or registered nurse is not required for licensed practical nurses in all jurisdictions.

Classified elsewhere

- Home Health aide (in 6471 *Visiting Homemakers, Housekeepers and Related Occupations*)
- *Nurse Aides, Orderlies and Patient Service Associates* (3413)

3234 Ambulance Attendants and Other Paramedical Occupations

This unit group includes workers who administer pre-hospital emergency medical care to patients and transport them to hospitals or other medical facilities for further medical care. They are employed by private ambulance services, hospitals, fire departments, government departments and agencies, manufacturing firms, mining companies and other private sector establishments.

Examples of titles classified in this unit group

advanced care paramedic
ambulance attendant
critical care paramedic
emergency medical attendant (EMA)
emergency medical care assistant
emergency medical responder
emergency medical technician (EMT)
emergency medical technician, paramedic (EMT - P)
emergency medical technologist, paramedic
paramedic
primary care paramedic
supervisor, ambulance services

Main duties

Workers in this unit group perform some or all of the following duties:

- Assess extent of injuries or illness of trauma victims, patients with respiratory disease and stress, overdose and poisoning victims, industrial accident victims and other ill or injured individuals to determine emergency medical treatment
- Administer pre-hospital emergency care, such as cardiopulmonary resuscitation (CPR), oxygen, bandaging and splinting, to patients
- Establish and maintain intravenous treatment (IV), apply adjunctive equipment for ventilation and circulation complications, administer medications and provide other advanced emergency treatment to patients
- Transport patients by air, land or water to hospital or other medical facility for further medical care
- Document and record nature of injuries and treatment provided
- Assist hospital personnel with provision of medical treatment, if necessary
- Maintain ambulances and emergency care equipment and supplies
- May train and supervise other workers in this unit group
- May assist with triage of emergency patients.

Employment requirements

- Completion of a college, hospital-based or other recognized program in emergency medical technology ranging from two to twenty-four months or courses in emergency health care
  and
  Supervised practical training are required.
- Licensure according to type and length of training by a regulatory body is required in Prince Edward Island, Ontario, Saskatchewan, Alberta and British Columbia.
- Those operating emergency vehicles require an appropriate class of licence.

Classified elsewhere

- *Other Assisting Occupations in Support of Health Services* (3414)

3235 Other Technical Occupations in Therapy and Assessment

This unit group includes workers, not elsewhere classified, who perform various technical therapy and assessment functions. Some may assist professionals such as audiologists, speech-language pathologists, ophthalmologists and physiotherapists. They are employed in hospitals, clinics, extended care facilities, rehabilitation centres, educational institutions and in the private practices of the professionals they assist. Massage therapists may also be self-employed.

Examples of titles classified in this unit group

audiology technician
audiometric assistant
audiometric technician
audioprosthetist
hearing aid consultant
massage therapist (MT)
ophthalmic assistant
ophthalmic technician
ophthalmic technologist
physical rehabilitation technician
physiotherapy technician
speech technician
speech therapist aide
speech therapy aide

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Audio prosthetists examine clients to determine appropriate type of hearing aid; may test patient's hearing; take ear impressions for use in the manufacture of the devices; fit and adjust hearing aids; and perform follow-up examinations and readjustments.
- Audiometric assistants administer, under the supervision of audiologists, tests such as speech reception and speech discrimination to determine the hearing thresholds of patients; and record these test results.
- Communication assistants carry out remedial programs, under the supervision of speech language pathologists, to rehabilitate patients with communicative disorders.
- Massage therapists assess clients by conducting range of motion and muscle testing and propose treatment plans; treat soft tissues and joints of the body through soft tissue manipulation, hydrotherapy, remedial exercise programs and client self-help programs; provide courses of treatment for medical conditions and injuries or wellness maintenance; maintain records of treatments given; and may work with other health care professionals when appropriate.
- Ophthalmic medical assistants operate ophthalmic testing and measuring instruments to aid ophthalmologists to assess patients' vision; record test results; assist ophthalmologists in office surgery; and administer eye drops, ointments and medications as directed by ophthalmologists.
- Physical rehabilitation technicians carry out, under physiotherapists' direction, treatment programs such as massage, thermotherapy, traction and hydrotherapy to rehabilitate injured or disabled individuals.

Employment requirements

- Audio prosthetists require completion of a two- or three-year college program in audio prosthetics, including a period of supervised training.
- Licensure with a regulatory body is required for audio prosthetists in Quebec, Alberta and British Columbia.
- Audiometric and communication assistants require completion of a 12- to 18-month college program in communicative disorders

  or

  Some post-secondary education and on-the-job training.
- Massage therapists usually require completion of an 18- to 24-month program in massage therapy from an accredited school and supervised practical training.
- Registration with a regulatory body is required for massage therapists in Ontario and British Columbia.

- Ophthalmic medical assistants require completion of a nine-month college program or a 24- to 30-month hospital-based training program in ophthalmic techniques and procedures

  or

  A minimum of one year of supervised practical training under an ophthalmologist and completion of an approved ophthalmic assistant home study program.
- Physical rehabilitation technicians require completion of a three-year college program in physical rehabilitation therapy and supervised practical training.

Additional information

- Currently, the qualifications of physical rehabilitation technicians are recognized only in the province of Quebec.

Classified elsewhere

- *Medical Technologists and Technicians (Except Dental Health)* (321)
- *Other Technical Occupations in Health Care (Except Dental)* (323)
- Physical therapy aides or chiropractic aides (in 3414 *Other Assisting Occupations in Support of Health Services*)

3411 Dental Assistants

Dental assistants assist dentists during the examination and treatment of patients and perform clerical functions. Dental assistants work primarily in dentists' offices, or they may be employed by government and educational institutions.

Examples of titles classified in this unit group

certified dental assistant
certified intra-oral dental assistant
dental assistant
registered dental assistant

Main duties

Dental assistants perform some or all of the following duties:

- Prepare patients for dental examination and assist the dentist during the examination
- Sterilize and maintain instruments and equipment
- Prepare dental instruments and filling materials
- Educate patients concerning oral hygiene
- Schedule patient appointments and record dental procedures performed
- Invoice patients for dental services
- Order dental and office supplies
- Take and develop X-rays
- Polish teeth and clinical crowns and apply fluoride and sealant
- Take preliminary impressions for diagnostic casts
- Fabricate temporary crowns and restorations.

Employment requirements

- Completion of a three-month to one-year college or other program in dental assistance
  or
  Completion of secondary school with on-the-job training is required.
- Licensing is not mandatory, but is required to perform intra-oral duties in all provinces except in Quebec.

Additional information

- In most provinces, there are two levels of dental assistants: Level I – chair-side assistant and Level II – intra-oral assistant. Progression from Level I to Level II is possible with appropriate training and licensure.

Classified elsewhere

- *Dental Technologists, Technicians and Laboratory Bench Workers* (3223)
- *Dental Therapists and Dental Hygienists* (3222)

3413 Nurse Aides, Orderlies and Patient Service Associates

Nurse aides, orderlies and patient service associates assist nurses, hospital staff and physicians in the basic care of patients. They are employed in hospitals, nursing homes, and other health care facilities.

Examples of titles classified in this unit group

health care aide
hospital attendant
long term care aide
nurse aide
nursing attendant
orderly
patient care aide
patient service associate
psychiatric aide

Main duties

Nurse aides, orderlies and patient service associates perform some or all of the following duties:

- Answer call signals; supply and empty bed pans; bathe, dress and groom patients; serve meal trays, feed or assist in feeding of patients and assist patients with menu selection; lift, turn or massage patients; shave patients prior to operations; supervise patients' exercise routines, set-up and provide leisure activities for patients, and accompany patients on outside recreational activities; and perform other duties related to patient care
- Take patients' blood pressure, temperature and pulse; report or record fluid intake and output; observe or monitor patients' status and document patient care on charts; collect specimens such as urine, faeces or sputum; administer suppositories, colonic irrigations and enemas and perform other procedures as directed by nursing and hospital staff
- Transport patients in wheelchair or stretcher for treatment or surgery
- Carry messages, reports, requisitions and specimens from one department to another
- Make beds and maintain patients' rooms
- Maintain inventory of supplies
- May perform maintenance tasks such as assist with the set-up and maintenance of traction equipment, clean or sterilize equipment, maintain and repair equipment, assemble, set-up and operate job-related equipment.

Employment requirements

- Some secondary school education and on-the-job training
  or
  A nursing aide or health care aide college or private institutional program, or a college nursing orderly program and supervised practical training are required.
- Some health care facilities may also require completion of a specialized courses such as C.P.R. (cardiopulmonary resuscitation), first aid and food handling/sterile processing.

Classified elsewhere

- *Licensed Practical Nurses* (3233)
- *Other Aides and Assistants in Support of Health Services* (3414)
- Personal care attendants – home care (in 6471 *Visiting Homemakers, Housekeepers and Related Occupations*)

3414 Other Assisting Occupations in Support of Health Services

This unit group includes workers who provide services and assistance to health care professionals and other health care staff. They are employed in hospitals, clinics, offices of health care professionals, nursing homes, optical retail stores and laboratories, pharmacies and medical pathology laboratories.

Examples of titles classified in this unit group

autopsy assistant
blood donor clinic assistant
cast room technician
central supply aide
chiropractic assistant
clinical laboratory helper
lens grinder, ophthalmic
morgue attendant
occupational therapy assistant
ophthalmic laboratory technician – retail
optical laboratory assistant
optometrist assistant
orthopedic technologist
pharmacy assistant
physiotherapy assistant
rehabilitation assistant
therapy assistant

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Orthopedic technologists assist orthopedic surgeons in the treatment of orthopedic diseases and injuries by applying and adjusting casts, splints, bandages and other orthopedic devices; assisting in the application, maintenance and adjustment of traction equipment; cleaning and dressing wounds; and removing casts, sutures, staples and pins. They also instruct patients and their families and other health care professionals with respect to orthopedic matters.
- Therapy assistants prepare and maintain equipment and supplies, assist patients as directed by health care professionals such as physiotherapists, occupational therapists and chiropractors and may perform routine office functions.
- Optical/ophthalmic laboratory technicians and assistants operate laboratory equipment to grind, cut, polish and edge lenses for eyeglasses according to prescriptions received and fit lenses into frames; make minor repairs for customers such as replacing frame screws or straightening frames; and maintain and repair optical laboratory equipment or machinery.
- Pharmacy assistants assist pharmacists by compounding, packaging and labelling pharmaceutical products and by maintaining prescription records and inventories of medications and pharmaceutical products.
- Central supply aides collect and sort soiled supplies and instruments from hospital departments; operate machines such as instrument washers, sonic sinks, cart washers and steam autoclaves to clean, reprocess and sterilize these supplies for re-use; and assemble packs of sterile supplies and instruments for delivery to hospital departments.
- Blood donor clinic assistants set up and dismantle equipment; prepare and maintain cleanliness of collection areas; maintain supplies; record information on donors; monitor donors throughout procedure and assist with post-donation care and donor reaction care as assigned under supervision of a registered nurse; and label and process donated blood.
- Morgue attendants assist pathologists at autopsies by laying out surgical instruments; preparing solutions for preservation of specimens; transferring bodies from morgue to examining table; removing organs and tissue specimens, as instructed by attending pathologist, and placing them in preservative solutions; and cleaning and sewing up bodies for release to funeral home.

Employment requirements

- Orthopedic technologists usually require completion of secondary school
  and
  several months of on-the-job training
  or
  A college orthopedic technologist program.

- Registration with the Canadian Society of Orthopaedic Technologists is available and usually required by employers.
- Health care courses or short-term college programs related to the work of medical assistants, such as occupational therapy assistant/physiotherapy assistant programs or a program in central supply service techniques, are available and may be required by employers.
- Pharmacy assistants require completion of secondary school
  and
  Several months of on-the-job training
  or
  A five- to nine-month college program in pharmaceutical services.
- Completion of secondary school and several months of on-the-job training are usually required for other assisting occupations in this unit group.

Additional information

- Occupational therapy assistants (OTA) and physiotherapy assistants (PTA) receive training through a single OTA/PTA program in some community colleges.

Classified elsewhere

- Eyeglass frame polisher (in 9517 *Other Products Machine Operators*)
- Medical technologists and technicians (in 321 *Medical Technologists and Technicians (except Dental Health)*)
- Operating room technicians (in 3233 *Licensed Practical Nurses*)
- *Other Technical Occupations in Therapy and Assessment* (3235)
- Pathologists' assistants (in 3211 *Medical Laboratory Technologists and Pathologists' Assistants*

OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION

Major Group 41

PROFESSIONAL OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICES AND RELIGION

411 Judges, Lawyers and Quebec Notaries

4111 Judges
4112 Lawyers and Quebec Notaries

412 University Professors and Assistants

4121 University Professors
4122 Post-Secondary Teaching and Research Assistants

413 College and Other Vocational Instructors

4131 College and Other Vocational Instructors

414 Secondary and Elementary School Teachers and Educational Counsellors

4141 Secondary School Teachers
4142 Elementary School and Kindergarten Teachers
4143 Educational Counsellors

415 Psychologists, Social Workers, Counsellors, Clergy and Probation Officers

4151 Psychologists
4152 Social Workers
4153 Family, Marriage and Other Related Counsellors
4154 Ministers of Religion
4155 Probation and Parole Officers and Related Occupations

416 Policy and Program Officers, Researchers and Consultants

4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers
4162 Economists and Economic Policy Researchers and Analysts
4163 Business Development Officers and Marketing Researchers and Consultants
4164 Social Policy Researchers, Consultants and Program Officers
4165 Health Policy Researchers, Consultants and Program Officers
4166 Education Policy Researchers, Consultants and Program Officers
4167 Recreation, Sports and Fitness Program Supervisors and Consultants
4168 Program Officers Unique to Government
4169 Other Professional Occupations in Social Science, n.e.c.

Major Group 42

PARAPROFESSIONAL OCCUPATIONS IN LAW, SOCIAL SERVICES, EDUCATION AND RELIGION

421 Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.

4211 Paralegal and Related Occupations
4212 Community and Social Service Workers
4213 Employment Counsellors
4214 Early Childhood Educators and Assistants
4215 Instructors and Teachers of Persons with Disabilities
4216 Other Instructors
4217 Other Religious Occupations

4111 Judges

Judges adjudicate civil and criminal cases and administer justice in courts of law. Judges preside over federal and provincial courts.

Examples of titles classified in this unit group

chief justice
county court judge
Court of Queen's Bench justice
district court judge
family court judge
federal trial court justice
provincial court of appeal justice
small claims court judge
superior court justice
Supreme Court Justice

Main duties

Judges perform some or all of the following duties:

- Preside over courts of law, interpret and enforce rules of procedure and make rulings regarding the admissibility of evidence
- Instruct the jury on laws that are applicable to the case
- Weigh and consider evidence in non-jury trials and decide legal guilt or innocence or degree of liability of the accused or defendant
- Pass sentence on persons convicted in criminal cases and determine damages or other appropriate remedy in civil cases
- Grant divorces and divide assets between spouses
- Determine custody of children between contesting parents and other guardians
- Enforce court orders for access or support
- Supervise other judges and court officers.

Judges may specialize in particular areas of law such as civil, criminal or family law.

Employment requirements

- Extensive experience as a lawyer or as a professor of law with continuous membership in the bar association is usually required.
- Membership in good standing with a provincial or territorial law society or bar association is required.
- Judges are appointed by federal or provincial cabinet.
- Those appointed to more senior positions in a court, such as chief justice, usually have experience as judges in that court.

Classified elsewhere

- Administrative tribunal judges (in 0411 *Government Managers – Health and Social Policy Development and Program Administration*)
- Citizenship court judges (in 1227 *Court Officers and Justices of the Peace)*
- Justices of the peace (in 1227 *Court Officers and Justices of the Peace*)

4112 Lawyers and Quebec Notaries

Lawyers and Quebec notaries advise clients on legal matters, represent clients before administration boards and draw up legal documents such as contracts and wills. Lawyers also plead cases, represent clients before tribunals and conduct prosecutions in courts of law. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments or they may be self-employed. Articling students are included in this group.

Examples of titles classified in this unit group

articling student
attorney
barrister
corporate counsel
Crown attorney
Crown prosecutor
general counsel
law partner
lawyer
legal advisor
notary (Quebec)
solicitor

Main duties

Lawyers and Quebec notaries perform some or all of the following duties:

- Advise clients of their legal rights and all matters related to law
- Research legal precedents and gather evidence
- Plead clients' cases before courts of law, tribunals and boards (lawyers only)
- Draw up legal documents such as real estate transactions, wills, divorces and contracts, and prepare statements of legal opinions
- Negotiate settlements of civil disputes (lawyers only)
- Perform administrative and management functions related to the practice of law
- May act as mediator, conciliator or arbitrator
- May act as executor, trustee or guardian in estate and family law matters.

Lawyers and Quebec notaries may specialize in specific areas of the law such as criminal law (lawyers only), corporate law, contract law, taxation law, administrative law, international law, commercial law, real estate law, family and estate law, intellectual property law and labour law.

Employment requirements

Lawyers

- Two to three years of undergraduate studies or, in Quebec, completion of college program
  and
  A bachelor's degree from a recognized law school
  and
  Successful completion of the bar examination and completion of a period of articling are required.
- Licensing by the provincial or territorial law society is required.

Notaries (Quebec)

- A bachelor's degree from a recognized law school and a Diploma of Notarial Law (D.D.N.)
  or
  A master's degree of law with specialization in notarial law
  and
  A 32-week vocational training program are required.
- Registration with the Corporation of Notaries is required.

Additional information

- Lawyers wishing to practise in another province may be required to pass examinations set by the provincial law society.

Classified elsewhere

- Legal department directors (in 0114 *Other Administrative Services Managers*)
- Legal firm managers (in 0123 *Other Business Services Managers*)
- Notaries public and trademark agents who are not lawyers (in 4211 *Paralegal and Related Occupations*)
- Patent agents who are not lawyers or Quebec notaries (in 4161 *Natural and Applied Science Policy Researchers, Consultants and Program Officers*)

4121 University Professors

University professors teach courses to undergraduate and graduate students and conduct research at universities and degree-granting colleges. University professors who are heads of departments are included in this unit group.

Examples of titles classified in this unit group

assistant professor, botany
associate professor, linguistics
chairperson, food sciences department
chairperson, physics department
department head, geography
English professor
lecturer, university
professor of computer sciences
professor of medicine
university instructor, engineering
university professor

Main duties

University professors perform some or all of the following duties:

- Teach one or more university subjects to undergraduate and graduate students
- Prepare and deliver lectures to students and conduct laboratory sessions or discussion groups
- Prepare, administer and grade examinations, laboratory assignments and reports
- Advise students on course and academic matters and career decisions
- Direct research programs of graduate students and advise on research matters
- Conduct research in field of specialization and publish findings in scholarly journals or books
- May serve on faculty committees dealing with such matters as curriculum planning and degree requirements, and perform a variety of administrative duties
- May represent their universities as speakers and guest lecturers
- May provide professional consultative services to government, industry and private individuals.

University professors specialize in a particular subject matter such as biology, chemistry, anatomy, sociology, business administration or law.

Employment requirements

- A doctoral degree in the field of specialization is required.
- Licences or professional certification may be required for professors teaching future practitioners in certain professionally regulated fields, such as medicine, engineering, architecture, psychology or law.

Additional information

- University professors who are also practitioners in their field of specialization must have the appropriate licences or certification.
- Progression to senior positions within a department, faculty or university is possible with experience.

Classified elsewhere

- *Administrators – Post-Secondary Education and Vocational Training* (0312)
- *College and Other Vocational Instructors* (4131)
- *Post-Secondary Teaching and Research Assistants* (4122)

4122 Post-Secondary Teaching and Research Assistants

Post-secondary teaching and research assistants assist university professors, community college and CEGEP teachers and other faculty members in teaching and research activities at universities and colleges.

Examples of titles classified in this unit group

college teaching assistant
graduate assistant
post-doctoral fellow
research assistant, university

Main duties

Post-secondary teaching assistants perform some or all of the following duties:

- Organize reference materials, visual aids and other materials as required by university professors or college teachers for lectures
- Conduct seminars, discussion groups and laboratory sessions to supplement lectures
- Assist in preparation and administration of examinations
- Grade examinations, term papers and laboratory reports.

Research assistants perform some or all of the following duties:

- Conduct literature reviews, surveys, laboratory experiments and other research for use in scholarly publications
- Compile research results and assist professor in analysis of results and preparation of journal articles or papers.

Post-secondary teaching and research assistants specialize in a subject matter based on their field of study.

Employment requirements

- Enrolment in a university, college or CEGEP program is required.

Classified elsewhere

- *Elementary and Secondary School Teacher Assistants* (6472)

4131 College and Other Vocational Instructors

This unit group includes instructors who teach applied arts, academic, technical and vocational subjects to students at community colleges, CEGEPs, agricultural colleges, technical institutes, language schools and other vocational schools. This unit group also includes trainers who are employed by private training establishments, companies, community agencies and governments to teach internal training or development courses. College teachers who are heads of departments are included in this group.

Examples of titles classified in this unit group

CEGEP teacher
commercial art instructor
college department chairperson, trade programs
college teacher
community college teacher
company trainer
computer training instructor
department head, dental hygienist program
hairdressing teacher
language instructor, language school
teacher, legal assistant program
training officer
vocational school teacher

Main duties

College and other vocational instructors perform some or all of the following duties:

- Teach students using a systematic plan of lectures, demonstrations, discussion groups, laboratory work, shop sessions, seminars, case studies, field assignments and independent or group projects
- Develop curriculum and prepare teaching materials and outlines for courses
- Prepare, administer and mark tests and papers to evaluate students' progress
- Advise students on program curricula and career decisions
- Provide individualized tutorial/remedial instructions
- Supervise independent or group projects, field placements, laboratory work or hands-on training
- May serve on committees concerned with matters such as budgets, curriculum revision, and course and diploma requirements.

These instructors specialize in particular fields of study such as visual arts, dental hygiene, welding, engineering technology or policing, or in areas such as computer software, management, pre-employment training and literacy skills.

Employment requirements

- A bachelor's degree, college diploma or demonstrated expertise in the field of instruction is required.
- A master's degree in the field of instruction may be required.
- A certificate, diploma or degree in adult education may be required.
- For instructors of trades, completion of apprenticeship training and trade certification are required. Additional courses in teaching or a provincial teaching certificate may be required.

Additional information

- Progression to administrative positions in post-secondary education is possible with experience.

Classified elsewhere

- Instructors teaching non-academic or non-vocational courses (in 4216 *Other Instructors)*
- *Secondary School Teachers* (4141)
- *University Professors* (4121)

4141 Secondary School Teachers

Secondary school teachers prepare and teach academic, technical, vocational or specialized subjects at public and private secondary schools. Secondary school teachers who are heads of departments and high school librarians are included in this group.

Examples of titles classified in this unit group

adult education teacher, secondary school
biology teacher, high school
commerce teacher, secondary school
department head, secondary school
English teacher, secondary school
English as second language teacher, high school
French as second language teacher, high school
history teacher, secondary school
high school teacher, special education
librarian, high school
secondary school teacher
supply teacher, high school
vocational teacher, high school

Main duties

Secondary school teachers perform some or all of the following duties:

- Prepare subject material for presentation to students according to an approved curriculum
- Teach students using a systematic plan of lectures, discussions, audio-visual presentations, and laboratory, shop and field studies
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate progress, determine individual needs of students and discuss results with parents and school officials
- Prepare and implement remedial programs for students requiring extra help
- Participate in staff meetings, educational conferences and teacher training workshops
- May advise students on course selection and on vocational and personal matters
- May supervise student teachers.

Secondary school teachers may specialize in such areas as mathematics, English, French, special education or second language instruction.

Employment requirements

- Teachers of academic subjects require a bachelor's degree in education which is often preceded by a bachelor's degree in the arts or sciences.
- Teachers of vocational or technical subjects, require a bachelor's of education which is usually preceded by specialized training or experience in the subject.
- Department heads usually require several years of teaching experience.
- To specialize in special education or English or French as a second language, additional training is required.
- A provincial teaching certificate is required.

Additional information

- Progression to vice-principal or other administrative positions in the education system is possible with experience.

Classified elsewhere

- *College and Other Vocational Instructors* (4131)
- *Educational Counsellors* (4143)
- *Elementary and Secondary School Teacher Assistants* (6472)
- *Elementary School and Kindergarten Teachers* (4142)
- Teachers of non-academic or vocational courses (in 4216 *Other Instructors*)
- Teachers teaching life skills courses to disabled persons (in 4215 *Instructors and Teachers of Persons with Disabilities*)

4142 Elementary School and Kindergarten Teachers

Elementary school and kindergarten teachers teach basic subjects such as reading, writing and arithmetic or specialized subjects such as English or French as a second language at public and private elementary schools. Elementary school librarians are included in this unit group.

Examples of titles classified in this unit group

elementary school teacher
elementary school teacher, English as a second language
elementary school teacher, French as a second language
French immersion teacher, elementary school
kindergarten teacher
librarian, elementary school
primary school teacher
special education teacher, elementary school
supply teacher, elementary school

Main duties

Elementary school and kindergarten teachers perform some or all of the following duties:

- Prepare courses for presentation to students according to approved curriculum
- Teach students using a systematic plan of lessons, discussions, audio-visual presentations and field trips
- Lead students in activities to promote their physical, mental and social development and their school readiness
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate the progress of students and discuss results with students, parents and school officials
- Identify children's individual learning needs
- Prepare and implement remedial programs for students requiring extra help
- Participate in staff meetings, educational conferences and teacher training workshops
- May supervise teachers' aides and student teachers.

Elementary school and kindergarten teachers may specialize in such areas as special education or second language instruction.

Employment requirements

- A bachelor's degree in education is required.
- Additional training is required to specialize in special education or second language instruction.
- A provincial teaching certificate is required. Additional certification is required to teach English or French as a second language.

Additional information

- Progression to education consultant or school principal is possible with experience.

Classified elsewhere

- *Early Childhood Educators and Assistants* (4214)
- *Elementary and Secondary School Teachers Assistants* (6472)
- *School Principals and Administrators of Elementary and Secondary Education* (0313)
- Teachers teaching life skills to persons with disabilities (in 4215 *Instructors and Teachers of Persons with Disabilities*)

4143 Educational Counsellors

Educational counsellors advise current and prospective students on educational issues, career planning and personal development and co-ordinate the provision of counselling services to students, parents, teachers, faculty and staff. They are employed by school boards, universities and colleges, technical institutes, correctional facilities and government agencies.

Examples of titles classified in this unit group

academic counsellor
educational counsellor
guidance counsellor
school counsellor
student counsellor

Main duties

Educational counsellors perform some or all of the following duties:

- Counsel students regarding educational issues such as course and program selection, time tables and scheduling, school adjustment, attendance problems and study skills
- Counsel students regarding career or vocational issues including career exploration and planning, résumé preparation, job interview skills and job search strategies and make available to them a wide range of educational and occupational information
- Counsel students regarding personal and social issues such as substance abuse, depression, sexuality, eating disorders, anxiety, self-esteem, family problems, relationship and interpersonal skills and anger management
- Counsel students in crisis situations such as dealing with the death of a friend or family member, suicidal tendencies and abuse situations
- Consult with teachers and parents or faculty and other professionals such as psychologists, speech therapists and social workers regarding various issues and concerns, and with administrators and community agencies regarding programs and referrals
- Co-ordinate co-op and school-to-work transition programs, and the provision of counselling and information services to students, parents, teachers, faculty and staff such as career information services, professional development sessions and interactions with other educational institutions
- Supervise peer counselling programs in school settings
- Administer and interpret standardized intelligence, personality, vocational, aptitude and interest tests
- Develop and co-ordinate study skills groups or workshops in colleges and universities on topics such as note-taking, test or examination anxiety and preparation strategies and time management skills
- Co-ordinate or participate in student orientation programs in colleges or universities
- Arrange for employers to recruit graduating college and university students, and students for co-op education work terms
- Visit colleges and secondary schools to provide academic information to prospective students, their parents and educational counsellors
- May supervise field experience for graduate students in counselling
- May teach regular classes.

Employment requirements

- A bachelor's degree in social sciences or education is required for counsellors in school settings.
- A master's degree in counselling or a related field such as educational psychology, developmental psychology or social work is usually required.
- Academic counsellors in post-secondary settings require an undergraduate degree and may require a graduate degree. A particular academic specialization may also be required.
- A teacher's certificate from the province of employment and some teaching experience is usually required for counsellors in school settings.

- In Quebec, membership in the professional association is mandatory for counsellors in school settings.
- Educational counsellors in colleges and universities may require licensing from a provincial regulatory body governing psychologists, guidance counsellors or social workers.

Additional information

- Elementary school counsellors generally provide more social and personal counselling than the vocational and academic counselling provided by high school counsellors.
- Educational counsellors in colleges, universities and other settings may specialize in academic counselling, personal or social issues/problems counselling or career/vocational counselling.

Classified elsewhere

- *Family, Marriage and Other Related Counsellors* (4153)
- School psychologists (in 4151 *Psychologists*)
- *Secondary School Teachers* (4141)
- *Social Workers* (4152)

4151 Psychologists

Psychologists assess and diagnose behavioural, emotional and cognitive disorders, counsel clients, provide therapy and research and apply theory relating to behaviour and mental processes. Psychologists help clients work toward the maintenance and enhancement of physical, intellectual, emotional, social and interpersonal functioning. Psychologists work in private practice or in institutions such as clinics, correctional facilities, hospitals, mental health facilities, rehabilitation centres, community service organizations, businesses, schools and universities, and government and private research agencies.

Examples of titles classified in this unit group

clinical psychologist
experimental psychologist
psychologist
psychological associate
research psychologist

Main duties

Psychologists perform some or all of the following duties:

- Examine and assess behaviour, diagnose behavioural, emotional and cognitive disorders, counsel clients and provide therapy
- Help clients manage physical illness and disorders
- Counsel individuals and groups to achieve more effective personal, social and vocational development and adjustment and offer mediation services
- Use standard psychological tests for assessment
- Plan intervention programs and conduct program evaluation
- Apply psychological theory and principles regarding behaviour and mental processes such as learning, memory, perception and language development
- Formulate hypotheses and experimental designs, review literature, conduct studies and publish research papers, educational texts and articles
- Deliver presentations at conferences, workshops or symposia
- Provide consultation services to government and other organizations.

Psychologists may specialize in applied psychology or experimental research. Sub-specialties include behavioural psychology, child psychology, cognitive psychology, developmental psychology, educational and school psychology, industrial psychology, neuropsychology, social psychology or sports psychology.

Employment requirements

- A doctoral degree in psychology is required for the designation "Psychologist" in Ontario, Manitoba and British Columbia.
- A master's degree in psychology is required for the designation "Psychologist" in Newfoundland, Nova Scotia, New Brunswick, Quebec, Saskatchewan, Alberta and the Northwest Territories.
- A master's degree in psychology is required for the designation "Psychological Associate" in Ontario and Manitoba.
- In Prince Edward Island, a doctoral degree is required to work in private practice, or a master's degree with practice limited to institutions and agencies.
- A period of supervised practical experience is required in most jurisdictions.
- Successful completion of the written Examination for Professional Practice in Psychology (EPPP) is required in most provinces.
- Oral examinations and board interviews are also required in some provinces.
- Registration with a regulatory body is required in all provinces and the Northwest Territories.
- Membership in the provincial professional association for psychologists is mandatory in all provinces and the Northwest Territories.
- Psychologists become specialized in a particular area through training and experience.

Additional information

- Psychological associates may be granted permission by provincial regulatory authorities to perform duties normally restricted to psychologists, specifically diagnosing psychological disorders and communicating diagnoses to clients.

Classified elsewhere

- Psychiatrists (in 3111 *Specialist Physicians*)
- Psychologists who teach at universities (in 4121 *University Professors*)
- Psychology research assistants, non-university (in 4164 *Social Policy Researchers, Consultants and Program Officers*)
- Psychology research assistants, university (in 4122 *Post-Secondary Teaching and Research Assistants*)
- Psychometrists (in 4169 *Other Professional Occupations in Social Science, n.e.c.*)

4152 Social Workers

Social workers help individuals, couples, families, groups, communities and organizations develop the skills and resources they need to enhance social functioning and provide counselling, therapy and referral to other supportive social services. Social workers also respond to other social needs such as unemployment, racism and poverty. They are employed by hospitals, school boards, social service agencies, child welfare organizations, correctional facilities, community agencies, employee assistance programs and Aboriginal band councils, or they may work in private practice.

Examples of titles classified in this unit group

co-ordinator of social work
medical social worker
psychiatric social worker
social work supervisor
social worker

Main duties

Social workers perform some or all of the following duties:

- Interview clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required
- Provide counsel and therapy to assist clients in developing skills to deal with and resolve their social and personal problems
- Plan programs of assistance for clients including referral to agencies that provide financial assistance, legal aid, housing, medical treatment and other services
- Investigate cases of child abuse or neglect and take authorized protective action when necessary
- Serve as members on interdisciplinary teams of professionals working with client groups
- Act as advocates for client groups in the community, lobby for solutions to problems directly affecting client groups and develop prevention and intervention programs to meet community needs
- Develop or advise on social policy legislation, conduct social research and assist in community development
- Provide mediation services and psychosocial assessments
- Evaluate the effectiveness of counselling and social programs
- May provide public education and consultation to professionals or groups regarding counselling services, issues and methods
- May supervise other social workers.

Social workers may specialize in fields of practice such as child welfare, family services, corrections, gerontology or addictions.

Employment requirements

- A bachelor's degree in social work is required in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, British Columbia and the Northwest Territories.
- In Alberta, a bachelor's degree or diploma in social work is required.
- In Saskatchewan, a bachelor's degree in social work is usually required.
- Supervised practical experience is usually required.
- Successful completion of provincial written and oral examinations may be required.
- Registration with a provincial governing body is mandatory to practise as a social worker in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario and Alberta.
- Use of the titles "Social Worker" and "Registered Social Worker" is regulated in all provinces.
- Membership in a provincial association of social workers is usually required.

Classified elsewhere

- *Community and Social Service Workers* (4212)
- *Educational Counsellors* (4143)
- *Family, Marriage and Other Related Counsellors* (4153)
- *Managers in Social, Community and Correctional Services* (0314)

4153 Family, Marriage and Other Related Counsellors

Family, marriage and other related counsellors assist individuals and groups of clients to identify, understand and overcome personal problems and achieve personal objectives. They are employed by counselling centres, social service agencies, government agencies, family therapy centres, health care and rehabilitation clinics and hospitals, or they may work in private practice.

Examples of titles classified in this unit group

addictions counsellor
bereavement counsellor
child and youth counsellor
family counsellor
marriage counsellor
registered clinical counsellor
registered marriage and family therapist
rehabilitation counsellor
sex therapist
vocational rehabilitation counsellor

Main duties

Family, marriage and other related counsellors perform some or all of the following duties:

- Interview clients, prepare case histories and assess problems
- Conduct vocational testing and psychometric assessment
- Develop and implement counselling and intervention programs to assist clients in determining goals and means of attaining them
- Counsel clients, and provide therapy and mediation services
- Evaluate the effectiveness of counselling programs and clients' progress in resolving identified problems and movement toward defined objectives
- Follow up results of counselling programs and clients' adjustments
- Prepare assessment, progress, follow-up and court reports
- May supervise other counsellors, social service staff and assistants
- May provide public education and consultation to other professionals or groups regarding counselling services, issues and methods
- May conduct research, publish research papers, educational texts and articles and deliver presentations at conferences.

Family, marriage and other related counsellors often specialize in dealing with a specific client group such as injured workers, or with specific problems, such as drug and alcohol addiction, marital difficulties or behavioural disorders.

Employment requirements

- A master's degree in the field of counselling, mental health or a related social service discipline is usually required.
- In Quebec, a master's degree in psychoeducation is required to practise as a psychoeducator.
- An undergraduate degree or college diploma in a social science is required for certain areas of counselling.
- Membership with a provincial association for marriage and family therapists or clinical counsellors is required to use the title "Registered Marriage and Family Therapist" and "Registered Clinical Counsellor".
- Registered marriage and family therapists and registered clinical counsellors must meet strict criteria involving graduate education and a period of supervised clinical work with clients.
- In Quebec, membership in the professional association is mandatory for counsellors and psychoeducators.

Additional information

- Counsellors usually become specialized in a particular area through training and experience.
- Progression to social service management positions is possible with additional training and experience.

Classified elsewhere

- *Educational Counsellors* (4143)
- *Employment Counsellors* (4213)
- *Managers in Social, Community and Correctional Services* (0314)
- *Social Workers* (4152)

4154 Ministers of Religion

Ministers of religion conduct religious services, administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion. Ministers of religion perform these duties in churches, synagogues, temples or other places of worship. They may also work in other institutions such as schools, hospitals and prisons.

Examples of titles classified in this unit group

archbishop
bishop
cardinal
chancellor
chaplain
evangelist
imam
minister
moderator
pastor
priest
rabbi
granthi

Main duties

Ministers of religion perform some or all of the following duties:

- Conduct religious services
- Administer rites of faiths such as marriages and funerals
- Provide spiritual and moral guidance to members of a religious faith
- Supervise, plan and administer programs of religious education
- May participate in humanitarian endeavours, social services and welfare activities
- May share in the administrative and financial operation of a religious community
- May provide consultation services to government and other organizations.

Employment requirements

- Educational requirements vary, depending on the religion, and range from the completion of a college or other program in religious studies to a master's of divinity degree.
- A period of study with a senior minister is usually required.

Additional information

- Progression to senior positions within a religious order is possible with experience.

Classified elsewhere

- *Other Religious Occupations* (4217)

4155 Probation and Parole Officers and Related Occupations

Probation officers monitor the conduct and behaviour of criminal offenders serving probation terms. Parole officers monitor the reintegration of criminal offenders serving the remainder of sentences while conditionally released into the community on parole. Classification officers assess inmates and develop rehabilitation programs for criminal offenders who are incarcerated in correctional facilities. They are employed by federal and provincial governments and work in the community and in correctional facilities.

Examples of titles classified in this unit group

case manager, corrections
classification officer, correctional institution
parole officer
probation officer
youth worker, corrections

Main duties

Probation and parole officers perform some or all of the following duties:

- Interview offenders, police, family, friends, school authorities and employers to prepare pre-sentence reports and assess offenders' prospects for successful reintegration into the community
- Plan rehabilitation programs with offenders, establishing rules of conduct, goals and objectives
- Refer offenders to community and social service programs, as required
- Supervise the terms of a probation order and attend court
- Interview probationers and parolees regularly to evaluate their progress in accomplishing goals and maintaining the terms specified in their probation contracts and rehabilitation plans
- Recommend remedial action or initiate court action when terms of probation or parole are violated
- May perform administrative duties and supervise support staff
- May participate in policy development.

Classification officers, correctional institutions, perform some or all of the following duties:

- Interview inmates to assess adjustment problems and develop suitable rehabilitation programs
- Prepare classification reports recommending type of incarceration and types of interventions considered most beneficial for the rehabilitation of the inmates
- Plan rehabilitation programs with offenders, identifying needs and setting out goals and objectives
- Liaise with the inmates' families and contacts in the community to maintain established bonds outside of the institution
- Advise and counsel inmates regarding their problems and evaluate their progress.

Employment requirements

- A bachelor's degree in social work, criminology, psychology, sociology or other related social science discipline is required.
- A master's degree in social work, criminology, psychology or other related social science discipline may be required.

Additional information

- Progression to correctional service management positions is possible with additional training or experience.

Classified elsewhere

- *Community and Social Service Workers* (4212)
- *Correctional Service Officers* (6462)
- Correctional services managers (in 0314 *Managers in Social, Community and Correctional Services*)
- *Social Workers* (4152)

4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers

Natural and applied science policy researchers, consultants and program officers conduct research, prepare reports, provide consultation and advice and administer programs in a variety of areas related to the natural and applied sciences. They are employed by federal, provincial and municipal governments, computer and office furniture manufacturers, educational institutions, research organizations, consulting firms, environmental and conservation organizations, or they may be self-employed.

Examples of titles classified in this unit group

energy policy analyst
environmental impact analyst
environmental issues lobbyist
ergonomist
fisheries analyst
human factor specialist (except engineer)
industrial hygienist
natural resource policy analyst
occupational hygienist
patent agent
program officer, natural and applied science
recycling coordinator
scientific consultant
supervisor, environmental program development
transport program analyst
transportation safety analyst

Main duties

The following is a summary of main duties for some occupations in this group:

- Ergonomists or human factors specialists conduct research and advise on, and intervene in the physical, social and psychological interrelationships between persons, their equipment and working or living environments to ensure that the design, configuration and use of equipment, procedures and environmental conditions maximize safety, productivity and comfort.
- Occupational or industrial hygienists study, evaluate and control physical, chemical and biological hazards and stresses in the workplace. They report and document investigations and conclusions, suggest changes to work environments and processes and provide information to workers and managers or employers on methods to reduce the risk of injury or illness from specific occupational hazards. They may also teach safe work procedures, participate in emergency response planning, testify at hearings and report findings at scientific conferences or in scientific journals.
- Patent agents advise clients on elements of patent law and on the patentability of inventions, conduct patent searches, prepare patent applications and represent clients before the patent office.
- Science policy and program officers conduct research and advise on policies or develop or administer programs related to transportation, communications, natural resources, agriculture, the environment, energy, land use, recycling and other scientific fields. They promote public awareness and education on such issues as utilization of natural resources, the environment, and reprocessing and reduction of waste.

Employment requirements

- A bachelor's degree or college diploma in a related scientific or technical discipline is usually required for occupations in this unit group.
- A master's degree in a related scientific discipline may be required.
- Occupational hygienists may require certification by The Canadian Registration Board of Occupational Hygienists or le Conseil d'accréditation en hygiène industrielle du Québec.
- Patent agents require 12 months of work experience in the patent field and successful completion of examinations set by the Commissioner of Patents. They may also be required to be listed in the register of patent agents.

4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers

Additional information

- Progression to supervisory or managerial positions in these fields is possible with experience.
- Certification of ergonomists through the Canadian Ergonomics Certification Board leading to the designation "Certified Ergonomist" (C.Ergo) is available.

Classified elsewhere

- *Architecture and Science Managers* (0212)
- *Health Policy Researchers, Consultants and Program Officers* (4165)
- Professional occupations in engineering (in 213 *Professional Occupations in Civil, Mechanical, Electrical and Chemical Engineering* and 214 *Other Professional Occupations in Engineering*)
- *Professional Occupations in Life Sciences* (212)
- *Professional Occupations in Physical Sciences* (211)

4162 Economists and Economic Policy Researchers and Analysts

Economists and economic policy researchers and analysts conduct research, monitor data, analyze information and prepare reports and plans to resolve economic and business problems and develop models to analyze, explain and forecast economic behaviour and patterns. They advise on matters such as finance, fiscal and monetary policy, international trade, agricultural and natural resource commodities and labour and industrial markets. They are employed by government departments and agencies and throughout the private sector in associations, unions, research organizations, banks and investment firms.

Examples of titles classified in this unit group

agricultural economist
economic advisor
economic analyst
economist
economist, natural resources
energy economist
financial economist
industrial economist
international trade economist
investment economist
labour economist
tax economist
trade economist

Main duties

Economists and economic policy researchers and analysts perform some or all of the following duties:

- Conduct research and develop models to analyze, explain and forecast economic behaviour and patterns, and devise methods for collection and analysis of data
- Forecast production and consumption of specific products and services based on records of past production and consumption and general economic and industry-specific conditions
- Prepare forecasts of income and expenditure, interest rates and exchange rates
- Analyze factors which determine economic growth and advise government agencies on policies to increase economic activities
- Analyze factors which determine labour force participation, employment, wages, unemployment and other labour market outcomes
- Study mathematical formulae and statistical techniques and apply them to the testing and quantifying of economic theories and the solution of economic problems
- Study the nature of money, credit and the operation of banks and other financial institutions to develop monetary policies and forecasts of financial activity
- Monitor economic data to assess the effectiveness, and advise on the appropriateness, of monetary and fiscal policies
- Examine problems related to the economic activity of individual companies
- Examine financial methods, production costs and techniques and marketing policies to recommend possible improvements
- Examine statistical data on the exchange of goods and services among nations
- Forecast production and consumption of renewable resources and supply, consumption and depletion of non-renewable resources
- Conduct research on market conditions in local, regional or national area to set sales and pricing levels for goods and services, to assess market potential and future trends and to develop business strategies
- Monitor regional and local economic trends
- Study regulatory processes and provide material in support of legal proceedings with government and other parties.

Employment requirements

- A master's degree in economics or in a related discipline such as business administration or statistics is usually required.
- A doctorate in economics may be required.

Additional information

- Progression to managerial positions in economics is possible with experience.

Classified elsewhere

- *Business Development Officers and Marketing Researchers and Consultants* (4163)
- Economists who teach at universities (in 4121 *University Professors)*
- *Financial and Investment Analysts* (1112)
- *Government Managers – Economic Analysis, Policy Development and Program Administration* (0412)
- Labour policy analysts (in 4164 *Social Policy Researchers, Consultants and Program Officers)*

4163 Business Development Officers and Marketing Researchers and Consultants

Business development officers and marketing researchers and consultants conduct research, formulate policies and manage programs to stimulate industrial and commercial business investment or tourism in urban and rural areas or to promote commercial or industrial products and services. They are employed by government departments, marketing firms and business associations or may be self-employed.

Examples of titles classified in this unit group

business development officer
community economic development consultant
economic development officer
industrial development officer
market researcher
marketing analyst
marketing consultant
regional development analyst
tourism development officer
tourism industry consultant

Main duties

Business development officers and marketing researchers and consultants perform some or all of the following duties:

- Develop policies and administer programs to promote industrial and commercial business investment in urban and rural areas
- Conduct social or economic surveys on local, regional or national areas to assess development potential and future trends
- Plan development projects with representatives of a wide variety of industrial and commercial enterprises, business associations and government agencies
- Assess business opportunities and develop strategies to attract venture capital
- Respond to enquiries from members of the business community and general public concerning development opportunities
- Review commercial or industrial development proposals and provide advice on procedures and requirements for government approval
- Conduct surveys and analyze data on the buying habits and preferences of wholesale or retail consumers
- Conduct comparative research on marketing strategies for industrial and commercial products
- Develop social and economic profiles of urban and rural areas to encourage industrial and commercial investment and development.

Employment requirements

- A bachelor's degree in economics, commerce, business administration or public administration is required.
- Certification as a certified economic developer (Ec.D.) may be required.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- Economic development managers (in 0412 *Government Managers – Economic Analysis, Policy Development and Program Administration*)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Financial and Investment Analysts* (1112)
- International development or aid officers (in 4164 *Social Policy Researchers, Consultants and Program Officers*)
- Marketing managers (in 0611 *Sales, Marketing and Advertising Managers*)
- *Other Financial Officers* (1114)
- *Urban and Land Use Planners* (2153)

4164 Social Policy Researchers, Consultants and Program Officers

Social policy researchers, consultants and program officers conduct research, develop policy and implement or administer programs in areas such as consumer affairs, employment, home economics, immigration, law enforcement, corrections, human rights, housing, labour, family services, foreign aid and international development. They are employed by government departments and agencies, industry, hospitals, educational institutions, consulting establishments, professional associations, research institutes, non-government organizations, international organizations or they may be self-employed.

Examples of titles classified in this unit group

aboriginal issues lobbyist
community social development officer
consumer advisor
child welfare policy analyst
home economist
housing policy analyst
human rights officer
international aid and development project officer
labour policy analyst
policy analyst, immigration
policy consultant, employment equity
program consultant, community policing
social policy researcher
social survey researcher (except statistician)
social services planner

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Social policy researchers develop social programs, social legislation, or proposals based on demographic, social and economic analysis and the evaluation of pilot projects.
- Home economists conduct research, advise consumers on the selection and proper use of food products, textiles and other consumer goods and teach household management skills. They may also provide consultative services in the areas of development and promotion of new food products, retail buying, social program administration and small business endeavours.
- Housing policy analysts identify and assess economic, demographic, and social developments and report on their implications for housing policy.
- International aid and development project officers plan, organize and administer foreign aid and international development policies and programs.
- Social survey researchers develop questionnaires, co-ordinate and conduct surveys, analyse data, and compile and interpret statistics on social issues and policy areas.
- Social services planners conduct research, develop social programs, assess, coordinate and develop awareness of existing social services, and ensure that duplication of services is avoided. They may also work with land use planners to determine the impact of major land use plans for transportation, housing and recreational facilities projects.

Employment requirements

- A bachelor's degree or college diploma in a social science or related discipline, or in business administration is usually required.
- A master's degree in a social science or related discipline, or in business administration may be required.
- Home economists require a bachelor's degree in home economics, home economics education, human ecology, nutrition and food sciences or family and consumer studies.
- Registration is available, but voluntary, for the designation, Registered Home Economist, in New Brunswick, Ontario, Manitoba and Alberta, and Registered Professional Home Economist in British Columbia.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- *Business Development Officers and Marketing Researchers and Consultants* (4163)
- *Community and Social Service Workers* (4212)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Health Policy Researchers, Consultants and Program Officers* (4165)
- Home economics teachers (in 4141 *Secondary School Teachers* and 4142 *Elementary School and Kindergarten Teachers*)
- Non-government managers in social policy (in 0314 *Managers in Social, Community and Correctional Services*)
- *Social Workers* (4152)

4165 Health Policy Researchers, Consultants and Program Officers

Health policy researchers, consultants and program officers conduct research, produce reports and administer health care policies and programs. They are employed by government departments and agencies, consulting establishments, universities, research institutes, hospitals, community agencies, educational institutions, professional associations, non-governmental organizations and international organizations.

Examples of titles classified in this unit group

consultant, drug and alcohol abuse
consultant, health care
consultant, mental health programs
health care planner
health promotion program officer
health services researcher
planning officer, child health care programs
policy development officer, nursing homes
research analyst, health policy

Main duties

Health policy researchers, consultants and program officers perform some or all of the following duties:

- Assist in developing government health policy by reviewing relevant literature, conducting interviews, collecting and analysing statistical data, and providing advice to senior managers and officials on issues such as health promotion, regulation, standards and financing
- Design and implement health projects or programs
- Maintain, update and manage health information databases
- Compile and analyse statistical information provided by private and public health care institutions and organizations and produce reports
- Monitor and evaluate health care programs operated by government departments and agencies or private organizations
- Assess compliance with health standards and identify remedial action if necessary
- Conduct evaluations and assessments of health projects and programs
- Provide consulting services to clients in private establishments or government departments or agencies
- Respond to internal and external program and policy information requests
- Produce newsletters, magazines and other documents to provide information to association or organization members or the general public
- Present the views of an association or organization to politicians, government officials, the media or the general public.

Health policy researchers, consultants and program officers may specialize in a particular area of health policy development, research or program administration such as addiction research.

Employment requirements

- A bachelor's degree or college diploma in health science, public administration, recreation administration or hospital administration, or a bachelor's degree in social science is required.
- A graduate degree in health, social science or an administrative discipline may be required.
- Several years of experience in the health field as a health care professional or as a community or social services worker are usually required.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- *Community and Social Service Workers* (4212)
- *Education Policy Researchers, Consultants and Program Officers* (4166)
- *Government Managers – Health and Social Policy Development and Program Administration* (0411)
- *Managers in Health Care* (0311)
- *Social Policy Researchers, Consultants and Program Officers* (4164)

4166 Education Policy Researchers, Consultants and Program Officers

Education policy researchers, consultants and program officers conduct research, produce reports and administer elementary, secondary and post-secondary education policies and programs. They are employed by government departments, school boards, research institutes, professional associations and educational and other organizations throughout the public and private sectors, or they may be self-employed.

Examples of titles classified in this unit group

co-ordinator, special education
curriculum developer
curriculum planner
education consultant
education outreach program co-ordinator
education policy officer
education program co-ordinator
education program officer
education researcher
language assessor
supervisor, education policy

Main duties

Education policy researchers, consultants and program officers perform some or all of the following duties:

- Conduct research, produce reports and administer education policies and programs
- Evaluate curriculum programs and recommend improvements
- Develop the structure, content and objectives of new programs
- Conduct statistical analyses to determine cost and effectiveness of education policies and programs
- Provide ongoing professional development, training and consultative services to teachers and other professionals throughout the public and private sector
- Develop teaching materials and other resources for program delivery
- Deliver presentations at conferences, workshops and symposia
- May supervise the work of other education policy researchers, consultants or program officers
- May administer specialized testing and assessment programs.

Employment requirements

- A bachelor's degree in education or in a discipline such as social science or business administration is required.
- A master's degree in education may be required.
- Specialized training or certification may be required.
- Several years of experience as a school teacher are usually required.
- A teacher's certificate for the province of employment is usually required when employed by provincial education ministries.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- *College and Other Vocational Instructors* (4131)
- *Educational Counsellors* (4143)
- *Elementary School and Kindergarten Teachers* (4142)
- *Government Managers – Education Policy Development and Program Administration* (0413)
- Psychology research assistants, non-university (in 4164 *Social Policy Researchers, Consultants and Program Officers*)
- *Secondary School Teachers* (4141)

4167 Recreation, Sports and Fitness Program Supervisors and Consultants

This unit group includes those who oversee and administer recreation, sports and fitness programs and activities, provide consulting services, conduct research and develop programs and policies related to recreation, sports and physical fitness. They are employed by federal, provincial and municipal governments, health and sports organizations, community centres, recreational institutions, sport and fitness consulting firms, or they may also be self-employed.

Examples of titles classified in this unit group

camp co-ordinator
exercise physiologist
exercise therapist
fitness appraiser
fitness consultant
fitness supervisor
kinesiologist
personal trainer
recreation consultant
sports consultant
sports policy analyst
sports program supervisor

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Kinesiologists conduct fitness and human movement tests and assessments. They design and implement programs to maintain, rehabilitate or enhance movement and performance in the areas of sports, recreation, work and exercise.
- Fitness consultants provide expert advice and consulting services to community groups, corporations, schools and other organizations in the design and development of fitness programs and activities.
- Recreation consultants provide expert advice and consulting service to communities, corporations, institutions and other organizations in the design and development of recreation programs and activities.
- Recreation, sports and fitness policy analysts conduct research and develop government policies related to recreation, sports and fitness.
- Recreation and sports program supervisors develop, plan and co-ordinate sports, fitness and recreation programs.
- Sports consultants provide expert advice and consulting service to sports associations and other organizations in the design, development and administration of sports programs and activities.
- Fitness appraisers conduct fitness tests and assessments, and design, develop and deliver fitness counselling.
- Exercise therapists conduct fitness tests and assessments, and design, develop and deliver rehabilitative exercise programs in occupational and related health settings.

Employment requirements

- A university degree in recreation administration, sports administration, physical education, kinesiology or related discipline combined with some work experience in a related field
  or
  A college diploma in a recreation, sports or fitness program combined with some experience in a related field is usually required.
- Kinesiologists usually require a master's degree in kinesiology.
- Recreation and sports program supervisors require experience as program leaders or instructors in recreation and sports. Certification in program specialization, such as fitness or lifesaving, may also be required.
- A Certified Fitness Appraiser certificate may be required for fitness consultants and appraisers.

Additional information

- Recreation and sports program supervisors may progress to recreation and sport management positions with experience.
- Mobility among recreation, sports and fitness consultants may be restricted within individual area of expertise.

4167 Recreation, Sports and Fitness Program Supervisors and Consultants

Classified elsewhere

- *Program Leaders and Instructors in Recreation and Sport* (5254)
- *Recreation and Sports Program and Service Directors* (0513)

4168 Program Officers Unique to Government

Program officers in this unit group are primarily concerned with the administration and operation of government institutions, such as Parliament, and activities unique to the operations of government, such as international relations, federal-provincial affairs and elections.

Examples of titles classified in this unit group

attaché
elections officer
federal-provincial relations officer
foreign service officer
intergovernmental affairs officer
officer, office of the speaker
officer, royal commission
officer, standing or select committee
protocol officer
returning officer
tribunal officer

Main duties

Program officers unique to government perform some or all of the following duties:

- Advise politicians or diplomats on the social, economic and political effects of government decisions on other governments in Canada or abroad
- Plan intergovernmental meetings and conferences with officers of other municipal, provincial or federal governments
- Co-ordinate the logistics and administration of elections within constituencies and ensure that electoral and voting procedures are followed
- Co-ordinate administrative support services for legislative committees, royal commissions or tribunals
- Plan logistics and oversee diplomatic protocol of official visits to Canada by foreign politicians and dignitaries
- Explain Canadian foreign and domestic policies to governments and nationals of foreign countries, and act on behalf of Canada abroad.

Employment requirements

- A bachelor's degree is usually required.
- A master's degree may be required.
- Several years of experience as a researcher, consultant or program administrator may be required.
- Foreign service officers are accepted on the basis of competitive examination.

Classified elsewhere

- *Administrative Officers* (1221)
- *Court Officers and Justices of the Peace* (1227)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Executive Assistants (*1222)
- *Immigration, Employment Insurance and Revenue Officers* (1228)
- *Social Policy Researchers, Consultants and Program Officers* (4164)

4169 Other Professional Occupations in Social Science, n.e.c.

This unit group includes anthropologists, archaeologists, geographers, historians, linguists, political scientists, sociologists and other professional occupations in social science not elsewhere classified. They are employed in universities and throughout the public and private sectors.

Examples of titles classified in this unit group

anthropologist
archaeologist
geographer
gerontologist
historian
linguist
political scientist
psychometrician
psychometrist
sociologist

Main duties

The following is a summary of main duties for some occupations in this group:

- Anthropologists conduct studies of the origin, development and functioning of human societies and cultures and of human evolution, changing physical characteristics and geographical distribution.
- Archaeologists study artifacts (objects and structures) to reconstruct past economic, social, political and intellectual life.
- Geographers study and analyse the spatial distribution and interrelationship of physical, biological, cultural and social patterns.
- Historians conduct research into one or more phases or aspects of past human activity and interpret and document findings.
- Linguists study the origin, structure and development of languages and apply linguistic theory to problems in teaching, translation and communications.
- Political scientists conduct research into the theory, origin, development, interrelationships and functioning of political institutions, political movements and individual political behaviour.
- Psychometricians develop psychological tests, scales and measures, and may administer or apply and interpret such tests, scales and measures. Psychometrists administer and score psychological tests, usually under the supervision of a registered psychologist.
- Sociologists study the development, structure, social patterns and interrelationships of human society.
- Other social science professionals included in this group specialize in particular areas of social sciences and humanities disciplines. These include criminologists (specialists in the study of crime and criminals), gerontologists (specialists in the phenomena and problems of ageing), graphoanalysts (specialists in handwriting analysis), and others.

Specialization usually exists within each of these occupations.

Employment requirements

- A master's or doctorate degree in the discipline is usually required.

Additional information

- Specialization within each occupation occurs through specialized university study or through experience.

Classified elsewhere

- *College and Other Vocational Instructors* (4131)
- *Economists and Economic Policy Researchers and Analysts* (4162)
- *Mathematicians, Statisticians and Actuaries* (2161)
- *Psychologists* (4151)
- *Secondary School Teachers* (4141)
- *Social Policy Researchers, Consultants and Program Officers* (4164)
- *University Professors* (4121)

4211 Paralegal and Related Occupations

Legal assistants and paralegals prepare legal documents, maintain records and files and conduct research to assist lawyers or other professionals. Notaries public administer oaths, take affidavits, sign legal documents and perform other activities according to the limitations of their appointment. Trademark agents advise clients on intellectual property matters. Independent paralegals provide legal services to the public as allowed by government legislation, or provide paralegal services on contract to law firms or other establishments. Legal assistants and paralegals are employed by law firms, by record search companies and in legal departments throughout the public and private sectors. Independent paralegals are usually self-employed. Trademark agents are employed by law firms and legal departments throughout the public and private sectors, trademark development and search firms or they may be self-employed. Notaries public are employed by government and in the public and private sectors or they may be self-employed

Examples of titles classified in this unit group

commercial law clerk
corporate paralegal
family law paralegal
independent paralegal
land titles examiner
law clerk
legal assistant
legal researcher
litigation legal assistant
notary public
paralegal
real estate law clerk
title searcher
trademark agent

Main duties

Legal assistants and paralegals in law firms or in other establishments perform some or all of the following duties:

- Assist lawyers by interviewing clients, witnesses and other related parties, assembling documentary evidence, preparing trial briefs, and arranging for trials
- Prepare wills, real estate transactions and other legal documents, court reports and affidavits
- Research records, court files and other legal documents
- Draft legal correspondence and perform general office and clerical duties.

Notaries public perform some or all of the following duties:

- Administer oaths and take affidavits and depositions
- Witness and certify the validity of signatures on documents
- May draft contracts, prepare promissory notes and draw up wills, mortgages and other legal documents
- May arrange probates and administer the estates of deceased persons.

Trademark agents perform some or all of the following duties:

- Advise clients on intellectual property matters and represent clients before the Registrar of Trade-Marks on matters including prosecution of applications for registration of trademarks
- Advise on the registrability of trademarks, trademark licensing requirements, transfer of intellectual property and protection of existing trademark rights
- Represent clients at proceedings before the Trade Marks Opposition Board and in related proceedings
- May represent clients internationally in consultation with foreign associates and attorneys.

Independent paralegals perform some or all of the following duties:

- Represent clients in small claims court and in other lower court proceedings, at tribunals and before administrative bodies
- Advise clients and take legal action on landlord and tenant matters, traffic violations, name changes and other issues within their jurisdictions.

Employment requirements

- Legal assistants and paralegals in law firms require a bachelor's degree in law or a college diploma in a legal assistant or law clerk program
  or
  In-house training from a law firm or other legal establishment.
- Independent paralegals require knowledge of legal principles and procedures usually obtained through industry-sponsored courses and through experience, or on completion of a community college paralegal program.
- Notaries public are appointed after examination and certification of their qualifications by the governing judiciary in their province or territory. All appointments have specific limitations on the activities they can perform and for specific periods of time.
- Notaries public require a provincial licence. In British Columbia, membership in the Society of Notaries Public is also required.
- To be licensed, trademark agents are required to work in the area of trademark law, including the preparation and prosecution of trademark applications for registration, for two years
  and
  to complete successfully the examination conducted jointly by the Intellectual Property Institute of Canada and the Registrar of Trade-Marks, Canadian Intellectual Property Office
  or
  either one of the above and to be a lawyer entitled to practise in Canada.
- Trademark agents require registration with the federal Trade-Mark Office.

Additional information

- Notaries public usually receive in-house training and perform their duties in rural or remote areas or in the business offices in which they are employed.

Classified elsewhere

- Articling students, Quebec notaries and trademark lawyers (in 4112 *Lawyers and Quebec Notaries*)
- *Legal Secretaries* (1242)
- Patent agents (in 4161 *Natural and Applied Science Policy Researchers, Consultants and Program Officers*)

4212 Community and Social Service Workers

Community and social service workers administer and implement a variety of social assistance programs and community services, and assist clients to deal with personal and social problems. They are employed by social service and government agencies, mental health agencies, group homes, school boards, correctional facilities and other establishments.

Examples of titles classified in this unit group

aboriginal outreach worker
addictions worker
behavioural aide
child and youth worker
community development worker
community service worker
crisis intervention worker
developmental service worker
drop-in centre worker
family service worker
financial assistance worker
group home worker
income maintenance officer
life skills instructor
mental health worker
rehabilitation worker
social services worker
veteran services officer
welfare and compensation officer
women's shelter supervisor
youth worker

Main Duties

Community and social service workers perform some or all of the following duties:

- Interview clients to obtain case history and background information
- Assess client's relevant skill strengths and deficits
- Assist clients to sort out options and develop plans of action while providing necessary support and assistance
- Assist clients in locating and utilizing community resources including legal, medical, financial assistance, housing, employment, transportation, assistance with moves, day care and other referral services
- Prepare intake reports
- Counsel clients living in group homes and half-way houses, supervise their activities and assist in pre-release and release planning.
- Participate in the selection and admission of clients to appropriate programs
- Assess and investigate eligibility for social benefits
- Meet with clients to assess their progress, give support and discuss any difficulties or problems
- Refer clients to other social services
- Advise and aid recipients of social assistance and pensions
- Provide crisis intervention and emergency shelter services
- Implement and organize the delivery of specific services within the community
- Implement life skills workshops, substance abuse treatment programs, behaviour management programs, youth services programs and other community and social service programs under the supervision of social services or health care professionals
- Assist in evaluating the effectiveness of treatment programs by tracking clients' behavioural changes and responses to interventions
- Maintain contact with other social service agencies and health care providers involved with clients to provide information and obtain feedback on clients' overall progress
- Co-ordinate the volunteer activities of human service agencies, health care facilities and arts and sports organizations
- Maintain program statistics for purposes of evaluation and research.

Employment requirements

- Completion of a college or university program in social work, child and youth care, counselling or other social science or health-related discipline is usually required.
- Previous work experience in a social service environment as a volunteer or in a support capacity may replace formal education requirements for some occupations in this unit group.

- Social service workers may be required to be a member of a provincial regulatory body in some provinces.

Additional information

- Progression to professional occupations in social services, such as family and marriage counsellors, social workers, and probation and parole officers, is possible with additional training and experience.

Classified elsewhere

- *Educational Counsellors* (4143)
- *Employment Counsellors* (4213)
- *Family, Marriage and Other Related Counsellors* (4153)
- *Managers in Social, Community and Correctional Services* (0314)
- *Probation and Parole Officers and Related Occupations* (4155)
- *Program Leaders and Instructors in Recreation and Sport* (5254)
- *Social Workers* (4152)

4213 Employment Counsellors

Employment counsellors provide assistance, counsel and information to worker clients on all aspects of employment search and career planning. They also provide counsel and information to employer clients regarding human resource and employment issues. Employment counsellors are employed primarily by federal and provincial governments but are also employed by large establishments and private employment service agencies. Supervisors of employment counsellors are included in this unit group.

Examples of titles classified in this unit group

career counsellor
career development consultant
career development counsellor
employment counsellor
occupational counsellor
outplacement counsellor
relocation consultant
relocation counsellor
supervisor, employment counsellors
vocational counsellor

Main duties

Employment counsellors perform some or all of the following duties:

- Interview clients to obtain employment history, educational background and career goals
- Identify barriers to employment and assist clients with such matters as job readiness skills, job search strategies, writing résumés and preparing for job interviews
- Advise employers on human resource and other employment-related issues
- Administer and interpret tests designed to determine the interests, aptitudes and abilities of clients
- Assess need for assistance such as rehabilitation, financial aid or further vocational training and refer clients to the appropriate services
- Provide established workers with information on maintaining a job or moving within an organization, dealing with job dissatisfaction or making a mid-career change
- Collect labour market information for clients regarding job openings, entry and skill requirements and other occupational information
- Provide consulting services to community groups and agencies, business and industry, and to other organizations involved in providing community-based career planning resources.

Employment requirements

- A bachelor's degree or college diploma in a related field, such as psychology, social services or education, is usually required.
- Completion of secondary school and several years of experience in services related to counselling or in a helping profession may replace formal education.

Additional information

- Progression to supervisory positions is possible through experience.
- Mobility to positions in personnel or training is possible.

Classified elsewhere

- *Employment Counsellors* (4143)
- Employment insurance officers (in 1228 *Immigration, Employment Insurance and Revenue Officers)*
- *Personnel and Recruitment Officers* (1223)
- Vocational rehabilitation counsellors (in 4153 *Family, Marriage and Other Related Counsellors*)

4214 Early Childhood Educators and Assistants

Early childhood educators plan and organize activities for pre-school and school-age children. Early childhood educator assistants provide care and guidance to pre-school children under the supervision of early childhood educators. Early childhood educators and assistants lead children in activities to stimulate and develop their intellectual, physical and emotional growth. Early childhood educators are employed in child-care centres, kindergartens, nursery schools and centres for exceptional children. Early childhood educator assistants are employed in day-care centres and nursery schools. Early childhood educators who are supervisors are included in this group.

Examples of titles classified in this unit group

child-care worker assistant
child-care worker, day care
day-care helper
day-care supervisor
day-care worker
early childhood assistant
early childhood education worker
early childhood educator
early childhood educator assistant
early childhood program staff assistant
early childhood supervisor
pre-school helper
pre-school supervisor
pre-school teacher

Main duties

Early childhood educators perform some or all of the following duties:

- Develop and implement daily activities for children
- Lead children in activities by telling or reading stories, teaching songs, demonstrating the use of simple musical instruments, preparing craft materials and demonstrating their use, providing opportunities for creative expression through the media of art, dramatic play, music and physical fitness, and taking the children to local points of interest
- Guide and assist children in the development of proper eating, dressing and toilet habits
- Observe children for signs of learning disabilities or emotional problems
- Discuss progress or problems of children with parents and other staff members
- Attend meetings and workshops to develop and discuss new teaching methods
- May plan and organize activities for school-age children in child-care programs before and after regular school hours
- May supervise and co-ordinate the activities of other early childhood educators and early childhood educator assistants.

Early childhood educator assistants perform some or all of the following duties:

- Conduct and monitor activity programs designed for young children
- Lead children in activities by telling stories, teaching songs and preparing craft materials
- Prepare and serve snacks
- Arrange rooms and furniture for lunch and rest periods
- Assist with proper eating, dressing and toilet habits
- Submit written observations on children to supervisor
- Attend staff meetings to discuss progress and problems of children
- Assist supervisor in keeping records
- Maintain day-care equipment and assist in housekeeping duties.

Employment requirements

Early childhood educators

- A bachelor's degree or college diploma in early childhood education is required.
- Progression to senior positions, such as day-care supervisor, is possible with experience.

Early childhood educator assistants

- Completion of secondary school is usually required.
- Experience in child care, such as babysitting, is required.
- Completion of an early childhood education assistant certificate program may be required.

Classified elsewhere

- *Elementary School and Kindergarten Teachers* (4142)
- Teacher aides (in 6472 *Elementary and Secondary School Teacher Assistants*)

4215 Instructors and Teachers of Persons with Disabilities

Instructors and teachers of persons with disabilities teach children and adults with physical and developmental disabilities communication techniques, such as Braille or sign language, and rehabilitation skills to increase independence and mobility. They are employed in rehabilitation centres, specialized educational institutes and throughout the elementary and secondary school system.

Examples of titles classified in this unit group

instructor, orientation and mobility
job coach for persons with disabilities
rehabilitation instructor
sign language instructor
teacher of Braille
teacher of persons who are blind
teacher of persons who are hearing impaired
teacher of persons who are intellectually impaired
teacher of persons with a physical disability
teacher, rehabilitation

Main duties

Instructors and teachers of persons with disabilities perform some or all of the following duties:

- Instruct students who are blind or visually impaired in reading and writing Braille and in the use of special equipment
- Instruct students who are deaf or hearing impaired in lip-reading, finger spelling and sign language, according to individual communication needs
- Instruct students who are hearing impaired in formation and development of sounds for speech using hearing aids and other devices
- Instruct individuals with physical disabilities and their families in the use of rehabilitative techniques, prosthetic devices, wheelchairs and other equipment designed to minimize the effects of a disability
- Assist individuals with intellectual impairments and physical disabilities to develop life skills and provide job training and support.

Employment requirements

- A bachelor's degree in education, special education, or a related field such as psychology or social work, is usually required.
- Completion of an appropriate training program in rehabilitation or special education is required.
- Instructors of persons who are blind require certification by the Canadian National Institute for the Blind.
- Teachers who work in a public school system require a provincial teaching certificate.

Classified elsewhere

- *Early Childhood Educators and Assistants* (4214)
- *Elementary and Secondary School Teacher Assistants* (6472)
- *Elementary School and Kindergarten Teachers* (4142)
- *Secondary School Teachers* (4141)

4216 Other Instructors

Instructors in this unit group teach courses, such as motor vehicle or motorcycle driving, sewing or other courses, which are outside of educational institutions and not job-related. They are employed by driving schools, fabric retailers and other commercial establishments or they may be self-employed. This unit group also includes driver's licence examiners, who are employed by provincial governments and tutors who provide instruction in elementary or secondary school subjects.

Examples of titles classified in this unit group

driving instructor
driver's licence examiner
instructor, modelling and finishing school
motorcycle driving instructor
sewing instructor – non-vocational

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Driving instructors instruct individuals on proper motor vehicle driving skills and traffic regulations, demonstrate and explain the handling and mechanical operation of motor vehicles and supervise individuals during practice driving.
- Driver's licence examiners conduct road test examinations and evaluate the driving ability of applicants for driver's licences.
- Sewing instructors give instruction to students in techniques and skills of sewing, tailoring and dressmaking.
- Modelling and finishing school instructors give instruction on comportment, personal development, make-up application and modelling techniques for fashion shows and magazine advertising.

Employment requirements

- Expertise in the field of instruction must be demonstrated.
- Driving instructors must obtain special licensing as a driving instructor in the province of employment.

Classified elsewhere

- *College and Other Vocational Instructors* (4131)
- *Elementary School and Kindergarten Teachers* (4142)
- *Secondary School Teachers* (4141)

4217 Other Religious Occupations

This unit group includes brothers, nuns, monks, religious education workers and others who provide support to ministers of religion or to a religious community and who perform certain functions associated with the practice of a religion. They may perform these duties in churches, synagogues, temples or other places of worship or in institutions such as schools, hospitals and prisons.

Examples of titles classified in this unit group

brother
cantor
Christian science practitioner
deacon
mohel
monk
nun
religious education worker
salvation army field worker

Main duties

Religious workers in this unit group perform some or all of the following duties:

- Assist at services of public worship and religious rites
- Provide religious education, spiritual guidance and moral support to members of a religious community
- Administer programs providing food, clothing and shelter.

Employment requirements

- Requirements range from completion of secondary school education to a university undergraduate degree, depending on the particular occupation and religion.
- There may be other admittance requirements depending on the particular occupation and religion.

Classified elsewhere

- *Ministers of Religion* (4154)

OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

Major Group 51
PROFESSIONAL OCCUPATIONS IN ART AND CULTURE

511 Librarians, Archivists, Conservators and Curators

5111 Librarians
5112 Conservators and Curators
5113 Archivists

512 Writing, Translating and Public Relations Professionals

5121 Authors and Writers
5122 Editors
5123 Journalists
5124 Professional Occupations in Public Relations and Communications
5125 Translators, Terminologists and Interpreters

513 Creative and Performing Artists

5131 Producers, Directors, Choreographers and Related Occupations
5132 Conductors, Composers and Arrangers
5133 Musicians and Singers
5134 Dancers
5135 Actors and Comedians
5136 Painters, Sculptors and Other Visual Artists

Major Group 52
TECHNICAL AND SKILLED OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

521 Technical Occupations in Libraries, Archives, Museums and Art Galleries

5211 Library and Archive Technicians and Assistants
5212 Technical Occupations Related to Museums and Art Galleries

522 Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts

5221 Photographers
5222 Film and Video Camera Operators
5223 Graphic Arts Technicians
5224 Broadcast Technicians
5225 Audio and Video Recording Technicians
5226 Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
5227 Support Occupations in Motion Pictures, Broadcasting and the Performing Arts

523 Announcers and Other Performers

5231 Announcers and Other Broadcasters
5232 Other Performers

524 Creative Designers and Craftspersons

5241 Graphic Designers and Illustrators
5242 Interior Designers
5243 Theatre, Fashion, Exhibit and Other Creative Designers
5244 Artisans and Craftspersons
5245 Patternmakers – Textile, Leather and Fur Products

525 Athletes, Coaches, Referees and Related Occupations

5251 Athletes
5252 Coaches
5253 Sports Officials and Referees
5254 Program Leaders and Instructors in Recreation and Sport

5111 Librarians

Librarians select, develop, organize and maintain library collections and provide advisory services for users. They are employed in libraries or in a department within a library.

Examples of titles classified in this unit group

bibliographer
cataloguer
cybrarian
librarian
library consultant
library supervisor

Main duties

Librarians perform some or all of the following duties:

- Recommend acquisition of books, periodicals, audio-visual, interactive media and other materials for inclusion in library collection
- Provide reference services
- Select, classify, catalogue and weed library materials
- Prepare bibliographies, indexes, reading lists, guides and other finding aids
- Develop systems to access library collections
- Perform manual, on-line and interactive media reference searches, make interlibrary loans and perform other functions using Internet and CD-ROM, to assist users in accessing library materials
- Provide specialized programs for children, seniors and other groups
- Conduct library information and orientation training programs and tours
- Perform related administrative duties and supervise library technicians, assistants and clerks.

Employment requirements

- A master's degree in library science is required.

Additional information

- Progression to library management positions is possible with experience.

Classified elsewhere

- Library directors (in 0511 *Library, Archive, Museum and Art Gallery Managers*)
- Medical record clerks (in 1413 *Records Management and Filing Clerks*)
- School librarians (in 4141 *Secondary School Teachers* and 4142 *Elementary School and Kindergarten Teachers*)

5112 Conservators and Curators

Conservators restore and conserve artifacts belonging to museums, galleries and owners of cultural property. Curators recommend the acquisition of museum and gallery artifacts and research their artistic history. Conservators and curators are employed in museums, art galleries and universities. Conservators may be self-employed.

Examples of titles classified in this unit group

assistant curator
conservator
conservator – art objects
curator

Main duties

Conservators perform some or all of the following duties:

- Examine artifacts, determine their condition, suggest methods for treating them and recommend preventive conservation techniques to their owners
- Restore and conserve paintings, photographs, sculptures, furniture, pottery and other museum and art gallery artifacts
- Provide advice on display and storage of museum and gallery artifacts to ensure proper maintenance and preservation
- Research new conservation and restoration techniques
- Provide consultation to museums, art galleries or private individuals
- Supervise conservation technicians and other museum technicians.

Curators perform some or all of the following duties:

- Recommend the acquisition of paintings, photographs, sculptures, documents and other museum and art gallery artifacts
- Research origins and artistic history of artifacts
- Develop storylines and themes and organize displays and exhibitions
- Co-ordinate the storage of collections and setting-up of displays and exhibitions
- Oversee the conservation, display and circulation of collections
- Supervise curatorial assistants and other museum technicians.

Conservators and curators may specialize in a particular type of collection or material, such as furniture, weapons, books, paintings and musical instruments.

Employment requirements

- Conservators require a master's degree in art conservation
  or
  Completion of a three-year college program in conservation technology and several years of experience in conservation work.
- Curators require a master's or bachelor's degree in museology, art history or a field related to their specific area of work.

Additional information

- Progression to museum or art gallery management positions is possible with experience.

Classified elsewhere

- Curatorial assistants (in 5212 *Technical Occupations Related to Museums and Art Galleries*)
- Museum designers (in 5243 *Theatre, Fashion, Exhibit and Other Creative Designers*)
- Museum educators (in 5124 *Professional Occupations in Public Relations and Communications*)

5113 Archivists

Archivists manage, process, store and disseminate information contained in an organization's archives. They acquire, store and research textual material, pictures, maps, architectural documents, electronic materials, films and videos, sound recordings and multimedia materials. Archivists are employed in archives, in the public and para-public sectors and in private sector organizations.

Examples of titles classified in this unit group

archivist
historical archivist
multimedia archivist

Main duties

Archivists perform some or all of the following duties:

- Develop policies and procedures for managing current and semicurrent archives, in particular corporate cataloguing systems, records scheduling and disposal, and finding aids
- Design programs for managing, disseminating and storing archives of all types (documents, photographs, maps, audio-visual materials, manuscripts, etc.)
- Plan the computerized management of archives and the management of electronic archives
- Appraise and acquire archival materials to build and develop an archival collection for research purposes
- Authenticate documents and records and research the origins and significance of archival materials
- Organize noncurrent archives and develop cataloguing and retrieval systems to allow access to archival materials
- Assist people with their searches.

Employment requirements

- A bachelor's degree minor in archival studies.
  or
  A university degree with a certificate in archival studies is required.
- A master's degree in archival studies, archival studies and information science, library science or history may be required.

Additional information

- Progression to archive management positions is possible with experience.

Classified elsewhere

- Archive assistants (in 5211 *Library and Archive Technicians and Assistants*)
- *Librarians* (5111)
- *Library, Archive, Museum and Art Gallery Managers* (0511)

5121 Authors and Writers

Authors and writers plan, research and write books, scripts, storyboards, plays, essays, speeches, manuals, specifications and other non-journalistic articles for publication or presentation. They are employed by advertising agencies, governments, large corporations, private consulting firms, publishing firms, multimedia/newmedia companies and other establishments, or they may be self-employed.

Examples of titles classified in this unit group

advertising copywriter
copywriter
essayist
interactive media writer
novelist
playwright
poet
scientific writer
script writer
specifications writer
speech writer
technical writer
writer

Main duties

The following is a summary of the main duties of some occupations in this unit group:

- Novelists, playwrights, script writers, poets and other creative writers conceive and write novels, plays, scripts, poetry and other material for publication or presentation and may conduct research to establish factual content and to obtain other necessary information.
- Technical writers analyze material, such as specifications, notes and drawings, and write manuals, user guides and other documents to explain clearly and concisely the installation, operation and maintenance of software and electronic, mechanical and other equipment.
- Copywriters study and determine selling features of products and services and write text for advertisements and commercials.

Authors and Writers may specialize in a particular subject or type of writing.

Employment requirements

- Technical writers usually require a university degree in the area of specialization, such as computer science or engineering.
- Copywriters usually require a university degree or college diploma in French, English, marketing, advertising or other discipline.
- Creative writing programs are offered by universities and colleges.
- Talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.
- Membership in a guild or union related to the occupation may be required.

Classified elsewhere

- *Editors* (5122)
- *Journalists* (5123)
- *Professional Occupations in Public Relations and Communications* (5124)
- Song Writers (in 5132 *Conductors, Composers and Arrangers*)
- *Translators, Terminologists and Interpreters* (5125)

5122 Editors

Editors review, evaluate and edit manuscripts, articles, news reports and other material for publication, broadcast or interactive media and co-ordinate the activities of writers, journalists and other staff. They are employed by publishing firms, magazines, journals, newspapers, radio and television networks and stations, and by companies and government departments that produce publications such as newsletters, handbooks, manuals and Web sites. Editors may also work on a freelance basis.

Examples of titles classified in this unit group

advertising editor
associate editor
contributing editor
copy editor
editor
editorial consultant
literary editor
manuscript editor
news editor
news service editor
sports editor
technical editor

Main duties

Editors perform some or all of the following duties:

- Evaluate suitability of manuscripts, articles, news copy and wire service dispatches for publication, broadcast or electronic media and recommend or make changes in content, style and organization
- Read and edit copy to be published or broadcast to detect and correct errors in spelling, grammar and syntax, and shorten or lengthen copy as space or time requires
- Confer with authors, staff writers, reporters and others regarding revisions to copy
- Plan and implement layout or format of copy according to space or time allocations and significance of copy
- Plan and co-ordinate activities of staff and assure production deadlines are met
- Plan coverage of upcoming events and assign work accordingly
- Write or prepare introductions, marketing and promotional materials, biographical notes, indexes and other text
- May negotiate royalties with authors and arrange for payment of freelance staff.

Editors may specialize in a particular subject area, such as news, sports or features, or in a particular type of publication, such as books, magazines, newspapers or manuals.

Employment requirements

- A bachelor's degree in English, French, journalism or a related discipline is usually required.
- Several years of experience in journalism, writing, publishing or a related field are usually required.
- Membership in the Editors Association of Canada may be required.

Additional information

- Progression to supervisory and management positions, such as editor-in-chief or managing editor, is possible with experience.

Classified elsewhere

- *Authors and Writers* (5121)
- Editorial assistants (in 1452 *Correspondence, Publication and Related Clerks*)
- Film editors (in 5131 *Producers, Directors, Choreographers and Related Occupations*)
- *Journalists* (5123)
- Managing editors (in 0512 *Managers - Publishing, Motion Pictures, Broadcasting and Performing Arts*)
- Map editors (in 2255 *Mapping and Related Technologists and Technicians*)
- Sound editors (in 5225 *Audio and Video Recording Technicians*)
- Translators-revisers (in 5125 *Translators, Terminologists and Interpreters*)

5123 Journalists

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media. Journalists are employed by radio and television networks and stations, newspapers and magazines. Journalists may also work on a freelance basis.

Examples of titles classified in this unit group

book reviewer
broadcast journalist
columnist
correspondent
cyberjournalist
investigative reporter
journalist
news commentator
newspaper critic
network reporter
reporter
television news anchorperson

Main duties

Journalists perform some or all of the following duties:

- Collect local, national and international news through interviews, investigation and observation
- Write news stories for publication and broadcast
- Receive, analyze and verify news and other copy for accuracy
- Arrange for and conduct interviews as part of research and for radio and television programs
- Research and report on developments in specialized fields such as medicine, science and technology
- Prepare regular feature columns and stories on specialized topics
- Write editorials and commentaries on topics of current interest to stimulate public interest and express the views of a publication or broadcasting station
- Write critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience.

Journalists may specialize in print, broadcast or Webcast media, in particular issues such as political affairs or entertainment news, or in a particular geographic area.

Employment requirements

- A university degree or college diploma in journalism or a related field such as communications is usually required.
- Experienced reporters may advance to editorial positions (print media) or become producers (broadcast media).

Classified elsewhere

- *Announcers and Other Broadcasters* (5231)
- *Editors* (5122)
- Photojournalists (in 5221 *Photographers*)
- *Writers* (5121)

5124 Professional Occupations in Public Relations and Communications

This unit group includes specialists in public relations and communications who develop and implement communication and promotion strategies and information programs, publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations, and for performers, athletes, writers and other talented individuals. They are employed by consulting firms, corporations, associations, government, social agencies, museums, public interest groups, cultural and other organizations, or they may be self-employed. Agents such as entertainment, literary and sports agents are included in this unit group.

Examples of titles classified in this unit group

communications officer
communications specialist
fund-raising consultant
information officer
literary agent
media co-ordinator
media relations officer
museum educator
performers agent
press secretary
public affairs officer
public relations consultant
public relations officer
publicist
publicity agent

Main duties

Specialists in public relations and communications perform some or all of the following duties:

- Develop, implement and evaluate communications strategies and programs designed to inform clients, employees and the general public of initiatives and policies of businesses, governments and other organizations
- Gather, research and prepare communications material for internal and external audiences
- Conduct public opinion and attitude surveys to identify the interests and concerns of key groups served by their organization
- Prepare or oversee preparation of reports, briefs, bibliographies, speeches, presentations, Web sites and press releases
- Develop and organize workshops, meetings, ceremonies and other events for publicity, fund-raising and information purposes
- Prepare and deliver educational and publicity programs and informational materials to increase awareness of museums, galleries and other tourist attractions
- Initiate and maintain contact with the media
- Arrange interviews and news conferences
- Act as spokesperson for an organization and answer written and oral inquiries
- Co-ordinate special publicity events and promotions for internal and external audiences
- Assist in the preparation of brochures, reports, newsletters and other material
- Represent and act as an agent for talented individuals or individuals with specific occupational expertise
- Prepare or oversee preparation of sports, literary, performance or other contracts.

Literary agents specialize in representing specific types of authors and writers. Performance agents specialize in representing specific singers, musicians, actors or other performers. Sports agents specialize in representing specific athletes or sports teams.

Employment requirements

- A university degree or college diploma in public relations, communications, journalism, museology or a discipline related to a particular subject matter is usually required.
- Practioners in public relations may require an APR (Accredited in Public Relations) designation.

Additional information

- Progression to managerial positions in public relations, communications and fund-raising is possible with additional training and experience.

Classified elsewhere

- Advertising specialists (in 1122 *Professional Occupations in Business Services to Management*)
- *Authors and Writers* (5121)
- *Conference and Event Planners* (1226)
- Marketing consultants (in 4163 *Business Development Officers and Marketing Researchers and Consultants*)
- Public relations clerks (in 1453 *Customer Service, Information and Related Clerks*)
- Public relations managers (in 0611 *Sales, Marketing and Advertising Managers*)

5125 Translators, Terminologists and Interpreters

Translators translate written material from one language to another. Interpreters translate oral communication from one language to another during speeches, meetings, conferences, debates and conversation, or in court or before administrative tribunals. Terminologists conduct research to itemize terms connected with a certain field, define them and find equivalents in another language. Sign language interpreters use sign language to translate spoken language and vice versa during meetings, conversations, television programs or in other instances. Translators, terminologists and interpreters are employed by government, private translation and interpretation agencies, in-house translation services, large private corporations, international organizations and the media, or they may be self-employed. Sign language interpreters work in schools and courts, and for social service agencies, interpretation services, government services and television stations, or they may be self-employed.

Examples of titles classified in this unit group

community interpreter
conference interpreter
court interpreter
interpreter
legal terminologist
literary translator
localisor
medical terminologist
sign language interpreter
terminologist
translator
translator adaptor
translator-reviser

Main duties

Translators and translators-revisers perform some or all of the following duties:

- Translate a variety of written material such as correspondence, reports, legal documents, technical specifications and textbooks from one language to another, maintaining the content, context and style of the original material to the greatest extent possible
- Localize software and accompanying technical documents to adapt them to another language and culture
- Revise and correct translated material
- May train and supervise other translators.

Terminologists perform some or all of the following duties:

- Identify the terminology used in a field of activity
- Conduct terminological research on a given subject or in response to inquiries for the preparation of glossaries, terminology banks, technological files, dictionaries, lexicons and resource centres, and add to terminological databases
- Manage, update and circulate linguistic information collected from terminological databases
- Provide consultative services to translators, interpreters and technical writers preparing legal, scientific or other documents requiring specialized terminologies.

Interpreters perform some or all of the following duties:

- Interpret oral communication from one language to another aloud or using electronic equipment, either simultaneously (as the speaker speaks), consecutively (after the speaker speaks) or whispered (speaking in a low whisper to one or two persons as the speaker is talking)
- Provide interpretation services in court or before administrative tribunals
- May interpret language for individuals and small groups travelling in Canada and abroad
- May interpret for persons speaking a Native or foreign language in a variety of circumstances
- May train other interpreters.

Translators, terminologists and interpreters specialize in two languages, such as French and English, the official languages of Canada. They may also specialize in another language and one of the official languages. The main areas of specialization include administrative, literary, scientific and technical translation. Interpreters may specialize in court, parliamentary or conference interpretation.

Sign language interpreters perform some or all of the following duties:

- Translate sign language to a spoken language and vice versa either simultaneously or consecutively.

Sign language interpreters work in French and Langue des signes québécoise (LSQ) or in English and American Sign Language (ASL).

Employment requirements

- A university degree in translation is required, with a specialization in translation, interpretation or terminology in two languages including at least one of the two official languages
  or
  A university degree in a related discipline such as languages, linguistics, philology and courses in linguistic transfer and two years' experience as a full-time translator working in two languages, at least one of which is an official language
  or
  Five years' experience as a full-time translator working in two languages, at least one of which is an official language.
- Sign language interpreters require a college training program or a university certificate in sign language interpretation.
- Certification on dossier or by examination from the Canadian Translators and Interpreter's Council may be required for translators, terminologists and interpreters.
- Sign language interpreters may require a certificate or certification evaluation in LSQ or ASL.
- Fluency in three languages is usually required for translators or interpreters working in an international context.
- Membership in a provincial or territorial association of translators, interpreters and terminologists may be required.
- Membership in a provincial association of sign language interpreters may be required.

Classified elsewhere

- *Authors and Writers* (5121)
- Language instructors (in 4131 *College and Other Vocational Instructors*)
- Linguists (in 4169 *Other Professional Occupations in Social Science*)

5131 Producers, Directors, Choreographers and Related Occupations

This unit group includes producers, directors, choreographers and others who oversee and control the technical and artistic aspects of film, television, radio, dance and theatre productions. They are employed by film production companies, radio and television stations, broadcast departments, advertising companies, sound recording studios, record production companies and dance companies. They may also be self-employed.

Examples of titles classified in this unit group

artistic director
choreographer
cyber-choreographer
director
director of photography
film editor
filmmaker
multimedia audio producer
producer
producer-director
radio producer
record producer
stage director – performing arts
technical director
television producer

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Film, radio and television producers plan, organize and control the various stages and scheduling involved in the production of presentations, motion pictures, television shows and radio programs; engage directors and other production personnel and supervise all technical personnel, and determine the treatment, scope and scheduling of production; maintain production archives and negotiate royalties.
- Directors interpret scripts and direct the mise-en-scène; select and direct the actors, extras and technical crew; advise the cast and crew on the interpretation and delivery of the performance; direct rehearsals, filmings, broadcasts and performances; and confer with crew and specialists throughout production and post-production to achieve desired presentation.
- Choreographers create dances for film, theatre and television performances that convey stories, ideas and moods, and direct rehearsals for dancers to achieve desired interpretation.
- Art directors plan, organize and direct the artistic aspects of motion pictures, stage productions and television shows by overseeing the design of sets, costumes, furnishings and props to create portrayals of period and setting.
- Film editors edit motion picture film and arrange film segments into sequences to achieve continuity and desired dramatic, comedic and thematic effects.
- Record producers plan and co-ordinate the production of musical recordings, direct musicians and singers during rehearsals and recordings. Manage technicians involved in duplicating, dubbing and mastering of recordings.
- Directors of photography co-ordinate and direct the photography of motion pictures, supervise camera operators and other crews and determine lighting, lenses, camera angles, backgrounds and other elements to achieve desired visual effect.

Employment requirements

- Producers, directors and film editors usually require a university degree or college diploma in the performing arts, broadcasting, journalism, business administration, theatre production or film studies
  and
  Experience in a technical or production occupation in motion pictures, broadcasting or theatre.
- Choreographers usually require a university degree or college diploma in dance, or a period of study at a school of dance
  and
  Extensive training with a dance company.

- Record producers usually require a university degree or college diploma in music or the recording arts
  and
  Experience in a technical or production occupation in the recording arts.
- Directors of photography usually require a university degree or college diploma in film studies or cinematography
  and
  Experience in camera operation or other technical occupation in video or motion picture production.
- Demonstrated creative ability is required for all occupations in this unit group.

Additional information

- Membership in a related guild or union may be required.

Classified elsewhere

- *Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts* (0512)
- *Photographers, Graphic Arts Technicians and Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts* (522)

5132 Conductors, Composers and Arrangers

This unit group includes those who conduct bands and orchestras, compose musical works and arrange instrumental and vocal compositions. They are employed by symphony and chamber orchestras, bands, choirs, sound recording companies, orchestras for ballet and opera performances or they may be self-employed.

Examples of titles classified in this unit group

arranger
bandmaster
choir director
composer
conductor
lyricist
music adapter
musical director
orchestrator
singer-songwriter-composer
songwriter

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Conductors select and interpret musical works and lead bands, orchestras and choirs during rehearsals and performances.
- Composers create musical compositions such as television and film scores, theme music, songs, symphonies and music for interactive products such as video games.
- Arrangers adapt and modify musical compositions to convey desired themes and to suit particular instrumental and vocal performances.

Conductors, composers and arrangers usually specialize in a particular type of music such as classical, country, jazz or popular.

Employment requirements

- A university degree in music or completion of a program at a music academy, conservatory or school of music is usually required.
- A period of specialized study related to conducting, composing or arranging is usually required.
- Experience as a musician is required.
- Musical and creative talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.

Additional information

- Composers often work as arrangers.

Classified elsewhere

- *Musicians and Singers* (5133)
- *Producers, Directors, Choreographers and Related Occupations* (5131)

5133 Musicians and Singers

This unit group includes musicians, singers and teachers of vocal and instrumental music. Musicians and singers perform with orchestras, choirs, opera companies and popular bands in establishments such as concert halls, lounges and theatres and in film, television and recording studios. Music teachers teach in conservatories, academies and private homes.

Examples of titles classified in this unit group

accompanist
church organist
guitar player
instrumentalist
musician
music teacher
opera singer
percussionist
recording artist
rock singer
singer
vocalist

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Musicians play one or more instruments as soloists or as members of a musical group before audiences or for recording purposes.
- Singers sing musical arrangements as soloists or as members of vocal groups before audiences or for recording purposes.
- Teachers of music or voice teach technique, interpretation and music theory to students through private or group lessons.

Musicians and singers usually specialize in specific types of music such as classical, country, ethnic, jazz, opera or popular music.

Employment requirements

- Musical training from a university or college or through private instruction is usually required.
- Members of orchestras and other professional classical musicians and singers usually require a university degree in music.
- Musical talent and ability, as demonstrated during an audition, are important hiring criteria.
- Membership in a guild or union related to the occupation or type of performance may be required.

Classified elsewhere

- *Conductors, Composers and Arrangers* (5132)
- Elementary School Music Teachers (in 4142 *Elementary School and Kindergarten Teachers)*
- Professors of Music (in 4121 *University Professors*)
- Secondary School Music Teachers (in 4141 *Secondary School Teachers*)

5134 Dancers

This unit group includes dancers and dance teachers. Dancers are employed by ballet and dance companies, television and film productions and night clubs and similar establishments. Dance teachers are employed by dance academies and dance schools.

Examples of titles classified in this unit group

ballet dancer
ballet teacher
ballroom dancing teacher
dance instructor
dancer
folkloric dancer
interpretive dancer
tap dancer

Main duties

Dancers perform some or all of the following duties:

- Practise and rehearse dance routines under direction or instruction to achieve desired interpretation and presentation
- Perform dances as soloists or as members of groups before live audiences or for film or television
- Train and exercise to maintain the required levels of ability and fitness
- May choreograph their own performances.

Dance Teachers perform some or all of the following duties:

- Teach dance technique and artistic interpretation to amateur and professional individuals and groups
- Teach the techniques, cultural origins and symbolic meanings of aboriginal, ethnic and folkloric dances
- Teach recreational dancing lessons such as ballroom dancing
- Prepare dance students for specific auditions and performances.

Dancers may specialize in specific types of dance such as ballet, ballroom, folk, jazz or modern.

Employment requirements

- A university degree or college diploma in dance
  or
  Graduation from a private dance school or academy may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Dance teachers usually require experience as dancers.
- Membership in a guild or union related to the occupation or type of performance may be required.

Classified elsewhere

- Choreographers (in 5131 *Producers, Directors, Choreographers and Related Occupations*)
- *Other Performers* (5232)

5135 Actors and Comedians

Actors and comedians perform roles in motion picture, television, theatre and radio productions to entertain a variety of audiences. They are employed by motion picture, television, theatre and other production companies. This unit group includes acting teachers employed by private acting schools.

Examples of titles classified in this unit group

acting teacher
actor/actress
comedian
drama teacher
narrator

Main duties

Actors and comedians perform some or all of the following duties:

- Study and rehearse lines, gestures and expressions to interpret a role
- Portray roles in video or motion picture productions, television shows, theatre productions, radio dramas, commercials and other productions or perform the narration
- Sing or dance as required by specific roles
- Perform comedy acts in nightclubs alone or as members of comedy troupes
- Improvise a role.

Acting teachers perform some or all of the following duties:

- Train students in interpretation of scripts, speech, movement, and dramatic theory
- Prepare acting students for specific auditions and performances.

Employment requirements

- Demonstrated ability, based on an audition or previous acting roles, is an important hiring criteria.
- Acting programs are offered at universities, colleges and private acting schools.
- Acting teachers usually require experience as actors.
- Membership in a guild or union may be required.

Classified elsewhere

- *Announcers and Other Broadcasters* (5231)
- *Dancers* (5134)
- Drama professors (in 4121 *University Professors*)
- *Musicians and Singers* (5133)
- *Other Performers* (5232)

5136 Painters, Sculptors and Other Visual Artists

Painters, sculptors and other visual artists create original paintings, drawings, sculptures, engravings and other artistic works. They are usually self-employed. This group also includes art instructors and teachers, who are usually employed by art schools.

Examples of titles classified in this unit group

art instructor (except primary, secondary and post-secondary education)
artist
artistic painter
portrait painter
sculptor
silkscreen artist
watercolourist

Main duties

Painters, sculptors and other visual artists perform some or all of the following duties:

- Painters create drawings, paintings and other artwork using oils, pastels, watercolours, charcoal, ink and other media.
- Sculptors create sculptures, statues and other three-dimensional artwork by shaping, carving and working with materials such as clay, ice, paper, stone, wood or metal.
- Art instructors and teachers teach students the techniques and methods of drawing, painting, sculpting and other forms of artistic expression.

Employment requirements

- Creative ability and talent, as demonstrated by a portfolio of work, and knowledge of the safe use of materials, tools and equipment are required. Art programs are offered at universities, colleges and private art schools.
- A college diploma in fine arts techniques may be required.
- Art instructors and teachers may be required to have a university degree or college diploma in a field related to art.

Classified elsewhere

- Art teacher *(university, post-secondary, secondary and elementary education* – in 4121, 4131, 4141, 4142)
- *Artisans and Craftspersons* (5244)
- *Graphic Designers and Illustrators* (5241)

5211 Library and Archive Technicians and Assistants

Library, archive and records management technicians and assistants assist users in accessing library or archive resources, participate in records management, assist in describing new acquisitions, participate in archive processing and storage, and conduct reference searches. They are employed by libraries, archives, records management branches and by other establishments with library or archive services.

Examples of titles classified in this unit group

archive assistant
archive technician
circulation assistant
library assistant
library technician
reference aide
technical indexer

Main duties

Library technicians and assistants perform some or all of the following duties:

- Assist library users in accessing books, films, photographs, maps, documents, electronic materials and other library materials
- Catalogue new library acquisitions under the direction of a librarian
- Issue for circulation library books and other materials
- Perform manual and on-line reference searches and make interlibrary loans for users
- Assist librarians in giving tours and providing children's and other specialized library programs
- Enter the checkout and return of books and other library materials if necessary.

Archive technicians and assistants perform some or all of the following duties:

- Assist in developing inventories, forms and finding aids
- Implement and update classification plans and records scheduling and disposal plans
- Codify and classify archival materials
- Put archival materials on microfilm
- Transfer materials from current to semicurrent status or put into permanent storage
- Purge, sort, reduce and sample archives
- Apply standards and policies for storage of archival materials
- Research and retrieve archival materials
- Participate in instructing and assisting users
- Ensure the use of computerized document systems.

Employment requirements

- A university degree
  or
  A diploma in archival studies
  or
  A college library technician program diploma is usually required.
- Computer literacy is required.

Classified elsewhere

- *Archivists* (5113)
- *Librarians* (5111)
- *Library Clerks* (1451)

5212 Technical Occupations Related to Museums and Art Galleries

This unit group includes workers who classify and catalogue museum and gallery artifacts, construct and install exhibits and displays, restore, maintain and store museum and gallery collections, frame artwork, and perform other functions in support of curatorial and conservation activities. They are employed in museums and galleries. Picture framers and taxidermists may also be employed in retail settings or may be self-employed. This unit group also includes museum and other interpreters who conduct guided tours. They are employed at art galleries, museums, parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic and heritage sites and other locations.

Examples of titles classified in this unit group

conservation technician
curatorial assistant
heritage interpreter
museology technician
museum objects cataloguer
museum extension officer
museum interpreter
museum registrar
museum technician
preparator
restoration technician
taxidermist

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Conservation and restoration technicians assist in the restoration and conservation of artifacts under the direction of a conservator.
- Curatorial assistants assist in the research, handling and storage of artifacts.
- Museum interpreters conduct tours of museums, gallery exhibitions and historical, heritage and other sites, answer inquiries and provide information concerning exhibits or sites.
- Museum extension officers assist with the planning and development of travelling exhibitions and special events.
- Museology technicians protect and care for cultural artifacts and collections during exhibitions, while in transit and in storage.
- Museum registrars and cataloguers classify and assign registration numbers to artifacts and supervise inventory control.
- Preparators construct displays and dioramas, build models, install artifacts in displays and prepare artifacts for storage and shipping.
- Picture framer fabricate custom frames, measure and cut mats, mat enhancements and glass, and mount paintings, photographs and other art work.
- Taxidermists prepare and mount skins of birds or animals for preservation, scientific or display purposes.

Technical museum and gallery workers may specialize in a specific type of collection.

Employment requirements

- Registrars, cataloguers and interpreters may require a university degree in a field related to museum and gallery work.
- For other occupations in this unit group, completion of a college program in museum technology or conservation technology
  or
  Other technical or on-the-job training programs related to the work are required.

Additional information

- Museum interpreters may require specific scientific or academic credentials for employment by some museums, nature centres or other sites.

Classified elsewhere

- Assistant curator (in 5112 *Conservators and Curators*)
- Museum exhibit designers (in 5243 *Theatre, Fashion, Exhibit and Other Creative Designers*)
- *Tour and Travel Guides* (6441)

5221 Photographers

Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects. Photographers are employed by photographic studios, newspapers, magazines, museums and government, or they may be self-employed.

Examples of titles classified in this unit group

aerial photographer
commercial photographer
forensic photographer
industrial photographer
photographer
photojournalist
portrait photographer
scientific photographer

Main duties

Photographers perform some or all of the following duties:

- Study requirements of a particular assignment and decide on type of camera, film, lighting and background accessories to be used
- Determine picture composition, make technical adjustments to equipment and photograph subject
- May operate scanners to transfer photographic images to computers
- May operate computers to manipulate photographic images
- May adapt existing photographic images and create new digitized images to be included in multimedia/newmedia products
- May use delicate instruments, such as optical microscopes attached to cameras
- May process exposed film
- May use airbrush, computer or other techniques to retouch negatives
- Medical photographers may work closely with medical illustrators.

Photographers may specialize in areas such as portrait photography, commercial photography, scientific photography, forensic photography, medical photography, digitized photography, multimedia photography or photojournalism.

Employment requirements

- A bachelor's degree in visual arts with specialization in photography or
  or
  Completion of specialized training in photography in high school, college or specialized training schools
  or
  Extensive on-the-job training under the supervision of a photographer is required.
- Experience in, or knowledge of computerized photography or digital imaging may be required.
- Creative and technical ability, as demonstrated by a portfolio of work, are required.

Classified elsewhere

- *Film and Video Camera Operators* (5222)

5222 Film and Video Camera Operators

Film and video camera operators operate motion picture and video cameras and related equipment to record news, live events, films, videos and television broadcasts. They are employed by television networks and stations, motion picture and video production companies and in-house communications facilities of large corporations.

Examples of titles classified in this unit group

assistant camera operator
camera operator
electronic news gathering (ENG) camera operator
film camera operator
motion picture camera operator
studio camera operator
television camera operator
video camera operator

Main duties

Film and video camera operators perform some or all of the following duties:

- Meet with director and senior members of camera crew to discuss assignment and determine filming sequences, camera movements and picture composition
- Select and set up camera equipment to be used, and attach lens, filters and film magazine to camera
- Adjust focus, exposure, lighting and other camera settings
- Operate film or video camera to record news, live events, films, videos and television broadcasts
- Label and record contents of exposed film, and complete report sheets
- Test, maintain and store equipment.

Employment requirements

- Completion of a college or technical program in broadcasting, audio-visual technology or a related field
  and
  Experience as a camera assistant are usually required.
- Creative and technical ability, as demonstrated by a portfolio of work and experience, may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- Progression to director of photography positions is possible with additional training and experience.

Classified elsewhere

- A/V assistants (in 5227 *Support Occupations in Motion pictures, Broadcasting and the Performing Arts*)
- *Audio and Video Recording Technicians* (5225)
- Filmmakers and directors of photography (in 5131 *Producers, Directors, Choreographers and Related Occupations*)
- *Photographers* (5221)
- Video artists (in 5136 *Painters, Sculptors and Other Visual Artists*)
- Video transmission operators (in 5224 *Broadcast Technicians*)

5223 Graphic Arts Technicians

Graphic arts Technicians assist in conceptualizing a project, interpreting design specifications or sketches, preparing the page make-up, lay-out and lettering, and preparing production materials for press, electronic or multimedia publishing. They are employed by publishing, communications, advertising, marketing, printing and multimedia establishments, and by television and film production companies. They may also be self-employed.

Examples of titles classified in this unit group

animated cartoon technician
animation painter
computer graphics technician
graphics technician
multimedia graphic design technician

Main duties

Graphic arts technicians perform some or all of the following duties:

- Review the graphic designer's instructions
- Produce or assist in developing and producing design concepts
- Capture elements such as titles, text, drawings, illustrations, graphics, lettering, colour harmonization, etc. using a computer
- Produce computerized images and drawings
- Digitize images using peripherals and transform them using retouching systems, graphic palettes or specialized software
- Perform the layout, page make-up and placement using the conceptual mock-ups provided
- Produce proofs and camera-ready materials and prepare film and any other pre-press materials
- Paint or ink individual cells of 2-D or 3-D animated drawings according to animator's specifications using an electronic palette
- Lay out, draw or paint letters, figures, logos and designs for windows, advertisements, billboards, vehicles, books and publications using specialized software or painting equipment
- Work in an interdisciplinary environment.

Employment requirements

- A college diploma in commercial or graphic arts, computer graphics or animated design is required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.
- Creative ability and artistic talent, as demonstrated by a portfolio of work, are required.

Additional information

- Progression to graphic designer positions is possible with experience or supplementary training.

Classified elsewhere

- *Correspondence, Publication and Related Clerks* (1452)
- Desktop publishing specialists (in 1423 *Typesetters and Related Occupations*)
- *Graphic Designers and Illustrators* (5241)
- Imprinting technologists (in 9472 *Camera, Platemaking and Other Pre-press Occupations*)

5224 Broadcast Technicians

Broadcast technicians install, set up, test, operate and repair electronic equipment used to record and transmit live and taped radio and television programs and to produce audio and video streaming broadcasts for the Internet. They are employed by radio and television broadcasting networks and stations, by broadcast equipment companies and by Internet-based communication providers.

Examples of titles classified in this unit group

broadcast engineer
broadcast technician
broadcast transmitter operator
broadcasting switcher
master control room (MCR) equipment operator – broadcasting
master control room (MCR) technician – broadcasting
mobile broadcast equipment operator
regional transmitter technician
short-wave receiving station technician
video transmission operator

Main duties

Broadcast technicians perform some or all of the following duties:

- Monitor broadcast quality of live and taped radio and television programs
- Operate and monitor radio and television broadcasting systems to broadcast, receive signals and to regulate clarity and range of sounds and colours of recordings or broadcasts
- Operate broadcast equipment to produce audio and video streaming broadcasts for the Internet
- Make emergency repairs to equipment and substitute programs in case of signal failure
- Maintain, install and troubleshoot a wide variety of broadcast hardware and software
- Set up and operate consoles to pick up and select feed sources from different locations and to air radio or television programs and commercials
- May supervise other broadcast technicians.

Employment requirements

- Completion of a college program in broadcast technology or electronics is usually required.
- Senior and supervisory positions in this unit group require experience.

Classified elsewhere

- *Audio and Video Recording Technicians* (5225)
- *Film and Video Camera Operators* (5222)
- *Other Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts* (5226)

5225 Audio and Video Recording Technicians

Audio and video recording technicians operate equipment to record, mix and edit sound, music and videotape, for motion pictures, television and radio programs, videos, recordings and live events. They are employed by film, video and concert production companies, sound recording firms, theatre and dance companies, clubs, bands, multimedia companies, radio stations, television networks and video production and editing companies.

Example titles

audiovisual (AV) technician
multimedia sound technician
postproduction technician
radio technician
recording engineer
recording studio technician
sound effects editor
sound engineer
sound mixer
sound technician
video and sound recorder
video recording technician

Main duties

Audio and video recording technicians perform some or all of the following duties:

- Set up, prepare, operate and adjust audio, recording, editing and reproducing equipment to record, edit and reproduce sound input or feed of pre-recorded material from tapes, records, compact discs, digital audio devices, and input from live microphones, satellites or microwave trucks for films, videos, radio and television programs and recordings
- Prepare and operate videotape recording and playback equipment to record videos, television programs, concerts and live events, and to edit video tape after production
- Operate electronic equipment to generate program titles, credits, sub-titles, graphic backgrounds or animation for television programs
- Operate audio consoles or computers, tape machines, microphones and sound processing equipment to mix, combine and edit music and sound at concerts and live events
- Operate dubbing machines to play back edited dialogue, music and sound effect tracks from different sources, in synchronization with motion picture film
- May supervise and co-ordinate the work of other audio and video recording technicians.

Employment requirements

- Completion of a college or other program in recording engineering, audiovisual technology or a related field
  or
  Experience as a recording studio assistant is usually required.
- Senior occupations in this unit group, such as recording and sound engineers, require experience.

Classified elsewhere

- *Broadcast Technicians* (5224)
- *Film and Video Camera Operators* (5222)
- Film editors (in 5131 *Producers, Directors, Choreographers and Related Occupations*)
- *Other Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts* (5226)

5226 Other Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts

This unit group includes a range of technical, co-ordinating and supervisory workers who co-ordinate and perform specific activities for television, radio and motion picture productions, news broadcasts, theatre and stage productions, and other live or recorded productions. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies, concert promoters and theatre, stage and dance companies.

Examples of titles classified in this unit group

costumier
floor manager
gaffer
key grip
lighting technician
make-up artist
program co-ordinator – broadcasting
property master
settings shop foreman/woman
special effects technician
stage manager
stage technician
stunt co-ordinator
theatre technician

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Floor managers co-ordinate camera operators and other technical staff, and cue announcers, actors and performers during news broadcasts and television program tapings.
- Key grips supervise grips, gaffers and stagehands who rig, place, move and dismantle lights, sets, backdrops, scenery and other stage equipment.
- Gaffers and lighting technicians set up, operate and make repairs to lights and other electrical equipment in studios and on sets and stages.
- Stunt co-ordinators and special effects technicians design and co-ordinate special effects such as fires, explosions and crashes.
- Make-up artists apply cosmetic and special effects make-up on actors and other performers.
- Costumiers study scripts to determine the necessary costumes; oversee the acquisition, fitting and maintenance of costumes.
- Settings shop foremen assist in preparing the construction specifications for sets.
- Property masters identify and list the necessary props and place them during rehearsals and performances.

Employment requirements

- For most occupations in this unit group, completion of a college or university program in broadcasting, theatre arts or a related field
  and
  Several years of experience in a related support or assisting occupation in motion pictures, broadcasting or the performing arts are required.
- Floor managers require a portfolio of work.
- Make-up artists working in motion pictures, broadcasting and the performing arts may require a training program.
- Creative ability, as demonstrated by a portfolio of work, is required for make-up artists.
- For gaffers, lighting technicians, key grips and other stage technicians, completion of a college program or other specialized training program in technical production for theatre is required.
- Membership in a related union may be required.

Additional information

- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.

5226 Other Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts

Classified elsewhere

- *Audio and Video Recording Technicians* (5225)
- *Broadcast Technicians* (5224)
- *Film and Video Camera Operators* (5222)
- Lighting designers (in 5243 *Theatre, Fashion, Exhibit and Other Creative Designers*)
- *Support Occupations in Motion Pictures, Broadcasting and the Performing Arts* (5227)

5227 Support Occupations in Motion Pictures, Broadcasting and the Performing Arts

This unit group includes workers who perform support duties related to broadcasting and to the production of motion pictures and the performing arts. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies and by theatre and stage companies. This unit group also includes projectionists employed by IMAX or automated cinemas and drive-in theatres.

Examples of titles classified in this unit group

boom grip
camera crane operator
dresser
grip
lighting assistant
projectionist
prompter
props person
script assistant
set builder
set dresser
special effects assistant
spotlight operator

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Camera crane operators set up, assemble, adjust, maintain and replace reels and projector equipment; detect and repair mechanical and electrical problems; and change and install an electronic control panel using automated equipment.
- Motion picture projectionists check the condition of the copy; set up and load film reels on movie and drive-in theatre projection systems, adjust focus, sound levels and other projector and theatre settings, and maintain projection equipment.
- Props persons and set builders assemble, repair, place, build and oversee props.
- Script assistants distribute scripts to actors, keep detailed notes of all actions, positions and camera angles and photograph and date scenes.
- Grips and riggers rig, place, move and dismantle sets, backdrops, scenery and other stage equipment.
- Dressers clean, maintain, transport and store costumes, and assist performers to dress in costumes.

Employment requirements

- Completion of secondary school is usually required.
- Most occupations in this unit group require completion of college courses in broadcasting, theatre arts or a related field
  or
  A period of on-the-job training.
  Certification for projectionists is available, but voluntary, in New Brunswick. In Quebec, projectionists are regulated under operators of electrical machines, cinema equipment.
- Projectionists are required to be licensed by their province of employment.

Additional information

- Progression to related technical occupations in motion pictures, broadcasting or the performing arts is possible with additional training or experience.
- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.

Classified elsewhere

- *Audio and Video Recording Technicians* (5225)
- *Broadcast Technicians* (5224)
- *Film and Video Camera Operators* (5222)
- *Other Technical and Coordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts* (5226)

5231 Announcers and Other Broadcasters

Announcers and other broadcasters read news, sports, weather, commercial and public service messages and host entertainment and information programs for broadcast on radio or television. They are primarily employed by radio and television stations and networks and by commercial firms that produce advertisements for radio or television.

Examples of titles classified in this unit group

announcer
broadcaster
disc jockey
news reader
radio host/hostess
sports announcer
talk show host/hostess
television host/hostess
traffic reporter
weather reporter

Main duties

Announcers and other broadcasters perform some or all of the following duties:

- Select and introduce music, videos and other entertainment material for broadcast and make commercial and public service announcements
- Act as host/hostess or master of ceremonies, introduce and interview guests and conduct proceedings of shows or programs
- Read news, sports and weather for radio and television
- Report on weather conditions using information provided by weather forecasting services
- Report on traffic conditions by maintaining contact with external sources of information or by observing traffic from air or land vehicle
- May present own material or material prepared by others.

Employment requirements

- Completion of a college radio or television arts program is usually required.
- Practical training, such as work at a college radio station, may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Membership in a guild or union related to the occupation or type of performance may be required.

Additional information

- Movement to occupations in journalism is possible for those with an educational background in journalism or a related field.

Classified elsewhere

- Broadcast journalists who prepare and present their own reports (in 5123 *Journalists*)
- *Support Occupations in Motion Pictures, Broadcasting and the Performing Arts* (5227)

5232 Other Performers

This unit group includes circus performers, magicians, models, puppeteers and other performers not elsewhere classified. They are employed by circuses, nightclubs, theatre, advertising and other production companies or may be self-employed.

Examples of titles classified in this unit group

acrobat
busker
circus performer
clown
fashion model
magician
puppeteer
ventriloquist

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Buskers entertain passers-by on sidewalks and in parks with magic tricks, juggling acts, short dramatic works, music and other entertaining displays.
- Circus performers such as trapeze artists, high-wire walkers, clowns and jugglers entertain audiences with thrilling and humorous acts.
- Magicians and illusionists perform sleight-of-hand tricks, disappearing acts and other illusions.
- Fashion models display clothing and merchandise in commercials, advertisements and fashion shows and pose for artists and photographers.
- Puppeteers operate puppets and marionettes.

Employment requirements

- Circus performers and acrobats may require a period of study at a circus school.
- Completion of modelling courses is usually required for models.
- Training for other occupations in this unit group is often obtained under the guidance of a practitioner.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Membership in a guild or union related to the occupation or type or performance may be required.

Additional information

- There is little mobility between the different occupations in this unit group.

Classified elsewhere

- *Actors and comedians* (5135)
- *Dancers* (5134)
- *Musicians and Singers* (5133)

5241 Graphic Designers and Illustrators

Graphic designers conceptualize and produce graphic art and visual materials to effectively communicate information for publications, advertising, films, packaging, posters, signs and interactive media such as web sites and CD-ROMs. They are employed by advertising and graphic design firms, by establishments with advertising or communications departments and by multimedia production companies, or they may be self-employed. Graphic designers who are also supervisors, project managers or consultants are included in this unit group. Illustrators conceptualize and create illustrations to represent information through images. They are almost solely self-employed.

Examples of titles classified in this unit group

advertising designer
animator – animated films
cartoonist
commercial artist
cybergraphic designer
graphic artist
graphic designer
graphic designer – multimedia
graphic designer – multimedia, interactive media or new media
illustrator
layout designer
medical illustrator
multimedia illustrator
scientific illustrator

Main duties

Graphic designers perform some or all of the following duties:

- Consult with clients to establish the overall look, graphic elements and content of communications materials in order to meet their needs
- Determine medium best suited to produce desired visual effect and the most appropriate vehicle for communication
- Develop the graphic elements that meet the clients' objectives
- Prepare sketches, layouts and graphic elements of the subjects to be rendered using traditional tools, multimedia software and image processing, layout and design software
- Estimate cost of materials and time to complete graphic design
- Use existing photo and illustration banks and typography guides or hire an illustrator or photographer to produce images that meet clients' communications needs
- Establish guidelines for illustrators or photographers
- Co-ordinate all aspects of production for print, audio-visual or electronic materials, such as web sites, CD-ROMs, interactive terminals, etc.
- Co-ordinate sub-contracting
- Work in a multidisciplinary environment
- Supervise other graphic designers or graphic arts technicians.

Illustrators perform some or all of the following duties:

- Consult with clients to determine the nature and content of illustrations in order to meet their communications needs
- Develop and produce realistic or representational sketches and final illustrations, by hand or using computer-assisted design (CAD) software, for printed materials such as books, magazines, packaging, greeting cards, stationery, etc.
- Assist in developing storyboards for electronic productions such as multimedia, interactive and digital products, television advertising and productions, etc.
- Produce 2-D and 3-D animated drawings or computer illustrations
- May adapt existing illustrations.

Illustrators may specialize in a particular field such as illustrations for children, advertising, editorials, humour, or medical, scientific or technical illustration, or multimedia design.

5241 Graphic Designers and Illustrators

Employment requirements

- A university degree in visual arts with specialization in graphic design, commercial art, graphic communications or cartooning is usually required
  or
  Completion of a college diploma in graphic arts is required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.
- In addition to the arts, training in biology, engineering, architecture or a scientific field is usually required for medical, technical and scientific illustrators.
- Creative ability and artistic talent, as demonstrated by a portfolio of work, is required for graphic designers and illustrators.

Additional information

- Progression to management or senior design positions is possible with experience.
- The title "registered graphic designer" is recognized by law in Ontario.

Classified elsewhere

- Advertising managers (in 0611 *Sales, Marketing and Advertising Managers*)
- *Graphic Arts Technicians* (5223)
- *Interior Designers* (5242)
- *Painters, Sculptors and Other Visual Artists* (5136)

5242 Interior Designers

Interior designers conceptualize and produce aesthetic, functional and safe designs for interior spaces in residential, commercial, cultural, institutional and industrial buildings. They are employed by architectural firms, interior design firms, retail establishments, construction companies, hospitals, airlines, hotel and restaurant chains, and other establishments or they may be self-employed.

Examples of titles classified in this unit group

aircraft interior designer
interior design technician
interior designer
kitchen designer
office space planner
project manager, interior design
retail space planner

Main duties

Interior designers perform some or all of the following duties:

- Consult with clients to determine needs, preferences, safety requirements and purpose of space
- Develop detailed plans and 3-D models showing arrangement of walls, dividers, displays, lighting and other fixtures using computer-assisted design (CAD) software and graphics software
- Develop plans, elevations, cross sections and detailed drawings, and advise on selection of colours, finishes and materials, floor and wall coverings, interior and exterior lighting, furniture and other items, taking into account ergonomic and occupational health standards
- Estimate costs and materials required and may advise on leasing, real estate and marketing
- Prepare plans and specifications for the final interior designs in accordance with current practices and codes
- Work in a multidisciplinary environment
- May direct site work crews and sub-contractors.

Interior designers may specialize in designing interiors for residential, commercial, institutional, cultural and industrial buildings and for aircraft, ships or trains, trade shows and exhibitions.

Employment requirements

- A university degree or college diploma in interior design is usually required.
- Creative ability and artistic talent, as demonstrated by a portfolio of work is required.
- Registration with the interior design association in the province of employment may be required.
- The National Council for Interior Design Qualification (NCIDQ) examination may be required after six years of combined study and experience.
- Certification is offered in Nova Scotia, New Brunswick, certain cities in Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

Classified elsewhere

- *Graphic Designers and Illustrators* (5241)
- *Industrial Designers* (2252)
- Interior decorators (in 6421 *Retail Salespersons and Sales Clerks*)
- Lighting Designers (in 5243 *Theatre Fashion, Exhibit and Other Creative Designers*)
- *Theatre, Fashion, Exhibit and Other Creative Designers* (5243)

5243 Theatre, Fashion, Exhibit and Other Creative Designers

Designers in this unit group conceptualize and produce designs for film, television, theatre and video productions, garments and textiles, displays and exhibits, and for other creative items such as jewellery and trophies. Theatre designers are employed by performing arts and broadcasting companies and by festivals; fashion designers are employed by clothing and textiles companies or may be self-employed; and exhibit designers are employed by museums and retail establishments. Other creative designers in this unit group are employed by manufacturing establishments or may be self-employed.

Examples of titles classified in this unit group

clothing designer
costume designer
couturier – haute couture
display designer
fabric designer
fashion designer
fur designer
jewellery designer
lighting designer
museum exhibit designer
shoe designer
trophy designer
window display designer

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Theatre designers design and create settings, scenic environments, properties, costumes and lighting for theatre, film and video productions, operas and ballets.
- Fashion designers design and create clothing and accessories for men, women and children.
- Exhibit designers plan and develop permanent and temporary or moveable exhibits and displays for museum exhibitions, trade shows, conventions, retail spaces and for other exhibitions.

Theatre designers may specialize in costume, lighting or set design; fashion designers may specialize in men's, women's or children's apparel or in different lines such as sportswear, footwear or formal wear.

Employment requirements

- A university degree in fine arts or visual arts with specialization in theatre design, clothing design or exhibit design
  or
  Completion of a college or art school program in theatre design, clothing design or exhibit design is required.
- Creative ability, as demonstrated by a portfolio of work, is required.
- Use of computer-aided design (CAD) software may be required.

Additional information

- Designers may advance to supervisory and management positions.

Classified elsewhere

- Diorama makers – museum and galleries (in 5212 *Technical Occupations Related to Museum and Galleries*)
- *Graphic Designers and Illustrators* (5241)
- *Industrial Designers* (2252)
- *Interior Designers* (5242)
- *Patternmakers – Textile, Leather and Fur Products* (5245)
- *Tailors, Dressmakers, Furriers and Milliners* (7342)

5244 Artisans and Craftpersons

This unit group includes those who use manual and artistic skills to design and make ornamental objects, pottery, stained glass, jewellery, rugs, blankets, other handicrafts and artistic floral arrangements. Makers of stringed musical instruments are also included in this unit group. Most craftspersons are self-employed. Artistic floral arrangers are usually employed in florist shops and florist departments of retail establishments or may be self-employed. Craft instructors are also included in this unit group and are employed by artisan guilds, colleges, private studios and recreational organizations.

Examples of titles classified in this unit group

artisan
artistic floral arranger
carver
craft instructor
craftsperson
glass blower
leather worker
metal arts worker
potter
silversmith
stained glass artist
stringed instrument maker
totem pole carver
weaver

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Carvers use hand tools and woodworking machines to produce carvings from wood, stone and other materials and to carve ornamental designs into wooden furniture and other objects.
- Glass blowers design and create glass objects using blowpipes and artisan's hand tools and equipment.
- Metal arts workers design metal jewellery, utensils, implements, wall hangings and other objects and create them from gold, silver, copper, pewter and other metals.
- Potters design ornamental and ceramic functional earthenware pieces and create them using clay, moulds, potter's wheels and other equipment, glazing materials and kilns.
- Stained glass artists design stained glass windows, lampshades and other objects and cut, paint, fire and assemble pieces of stained glass to create such products.
- Stringed instrument makers construct stringed instruments applying their knowledge of wood, ebonite, metal properties and other materials and instrument design using hand and power tools.
- Weavers use hands or loom to interlace strips of flexible material such as wool, cotton, silk, grasses, bark and rawhide to make baskets, wreaths, wall hangings, clothing, rugs, blankets and other objects.
- Craft instructors prepare craftmaking lessons, gather the required working materials and demonstrate and teach craftmaking techniques.
- Artistic floral arrangers design bouquets, corsages, sprays, wreaths and other floral arrangements and select natural and artificial flowers, foliage and decorative accessories to create arrangements or other floral items to suit customers' requirements.

Employment requirements

- Skills are often learned through apprenticeship with a master craftsperson.
- Training programs are offered by artisan guilds, colleges and private studios.
- Creative ability and talent, as demonstrated by a portfolio of work and knowledge of safe handling of material, tools and equipment are required.
- A college diploma in fine craft techniques may be required.

Classified elsewhere

- *Cabinetmakers* (7272)
- Fabric-making occupations in manufacturing (in 9442 *Weavers, Knitters and Other Fabric-making Occupations*)
- *Jewellers, Watch Repairers and Related Occupations* (7344)
- *Painters, Sculptors and Other Visual Artists* (5136)

5245 Patternmakers – Textile, Leather and Fur Products

Patternmakers in this unit group create master patterns for the production of garments, footwear and other textile, leather or fur products. They are employed by pattern manufacturers, textile, leather or fur products manufacturers or they may be self-employed.

Examples of titles classified in this unit group

dress patternmaker
embroidery patternmaker
fur garment patternmaker
garment patternmaker
leather products patternmaker
shoe patternmaker
textile products patternmaker

Main duties

Patternmakers in this unit group perform some or all of the following duties:

- Examine sketches, samples of articles and specifications of designs to determine number, size and shape of pattern parts and assess the amount of cloth required to make product
- Draw, lay out and cut master pattern of product
- Outline parts of pattern on paper and mark pattern to indicate details such as placement of pockets and pleats on garments, decorative stitching on shoe parts or eyelets on canvas products
- Create pattern size variations from master pattern using computer or drafting instruments, or forward pattern to computer operator to create pattern size variations
- Lay out master pattern on fabric and cut sample pattern
- Mark size, identification, style and sewing instructions on sample patterns.

Employment requirements

- Completion of secondary school is required.
- College courses in design and patternmaking
  or
  One to two years of on-the-job training are required.
- Courses in computer-assisted patternmaking may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Supervisors, Fabric, Fur and Leather Products Manufacturing* (9225)

5251 Athletes

Athletes participate in competitive sports events on an amateur or professional basis. They play team sports such as hockey, baseball, football and lacrosse, or compete in individual sports such as skiing, figure skating, boxing or track and field. Athletes are employed by professional team organizations or they may be self-employed.

Examples of titles classified in this unit group

athlete
baseball player
boxer
figure skater
football player
golfer
harness race driver
hockey player
jockey
professional athlete
skier
sprinter
track athlete

Main duties

Athletes perform some or all of the following duties:

- Train under the direction of a coach or trainer to qualify for competition
- Attend scheduled practice and training sessions
- Participate in local, regional, provincial, national or international competitions and sporting events
- Assess performance after an event to identify strengths and weaknesses.

Employment requirements

- Demonstrated ability in a particular sport is required.
- Extensive training under the supervision of a coach is required.
- Certification with a particular sports federation may be required.
- A background combining athletic training and college or university studies is strongly recommended.

Classified elsewhere

- *Coaches* (5252)
- Sports instructors (in 5254 *Program Leaders and Instructors in Recreation and Sport*)
- *Sports Officials and Referees* (5253)

5252 Coaches

Coaches prepare and train individual athletes or teams for competitive events. They are employed by national and provincial sports organizations, professional and amateur sports teams, sports clubs and universities or they may be self-employed. This unit group also includes sports scouts who identify and recruit athletes for professional sports teams. They are employed by professional sports organizations.

Examples of titles classified in this unit group

coach
figure-skating coach
football scout
gymnastics coach
head coach
hockey coach
hockey scout
national team coach
soccer coach
sports scout
swimming coach
volleyball coach

Main duties

Coaches perform some or all of the following duties:

- Identify strengths and weaknesses of athletes or teams
- Plan, develop and implement training and practice sessions
- Nurture and develop athletes' potential skills and abilities
- Develop, plan and co-ordinate competitive schedules and programs
- Motivate and prepare athletes or teams for competitive events or games
- Formulate competitive strategy, develop game plans and direct athletes and players during games or athletic events
- Analyse and evaluate athletes' or teams' performances and modify training programs.

Sports scouts perform some or all of the following duties:

- Identify and recruit developing athletes for professional sports team
- Observe and evaluate prospective athletes' skills and performance, and review their past record
- File report on scouting assessments and recommendations with professional team employers.

Employment requirements

Coaches

- Completion of the National Coaching Certificate program is usually required for individual and team sport coaches in all sports.
- National Coaching Certificate Level 3 is usually required for provincial coaches.
- National Coaching Certificate Level 4 is required for coaches of national team athletes.
- A degree in physical education may be required.
- Experience in and technical knowledge of the sport is required.

Sports scouts

- Experience in and technical knowledge of the sport is required.

Classified elsewhere

- *Athletes* (5251)
- Athletic trainers (in 3144 *Other Professional Occupations in Therapy and Assessment*)
- *Program Leaders and Instructors in Recreation and Sport* (5254)
- *Sports Officials and Referees* (5253)

5253 Sports Officials and Referees

Sports officials and referees observe and enforce rules and regulations governing sporting events, athletic games and sports competitions. They are employed by national, provincial and local sporting commissions, organizations and leagues.

Examples of titles classified in this unit group

athletics judge
clerk of the course – racetrack
figure skating judge
goal judge
harness racing starter
sports linesman/woman
racetrack timer
referee
sports official
umpire

Main duties

Sports officials and referees perform some or all of the following duties:

- Officiate at sporting events or athletic competitions to maintain standards of play and to ensure that game rules and safety regulations are observed
- Record lapsed time and keep scores during events or competitions
- Judge the performance of competitors, award points, impose penalties for infractions and determine results
- Compile scores and other athletic records
- Establish and maintain rapport with coaches, players and organizing committees
- Verify credentials of athletes or animals engaged in sports or related special events and respond to written protests.

Employment requirements

- Sports officials require certification by and registration with a sport governing body or commission.
- Sports referees require completion of an officiating program offered by a sport governing body.

Classified elsewhere

- *Coaches* (5252)
- *Program Leaders and Instructors in Recreation and Sport* (5254)

5254 Program Leaders and Instructors in Recreation and Sport

Program leaders and instructors in recreation and sport lead and instruct groups and individuals in recreational, sports, fitness or athletic programs. They are employed by community centres, sports and fitness clubs, outdoor centres, resorts, medical institutions, recreational facilities, correctional institutions and similar establishments.

Examples of titles classified in this unit group

aerobics instructor
camp counsellor
day camp leader
fitness instructor
gymnastics teacher
lifeguard
playground worker
recreation program leader
riding instructor
ski instructor
ski patrol
swimming instructor – sports

Main duties

Program leaders and instructors in recreation and sport perform some or all of the following duties:

- Plan and carry-out recreational, athletic, fitness and sports activities
- Assemble supplies and sports and game equipment
- Demonstrate and instruct athletic, fitness or sports activities and techniques
- Instruct groups and individuals in arts, crafts and similar activities and lead groups and individuals in recreational or leisure programs
- Attend to clients with special needs
- Provide lifestyle awareness information
- Conduct therapeutic recreational or athletic activities
- Monitor recreational or sports activities to ensure safety and provide emergency or first aid assistance when required
- Enforce safety rules and regulations.

Employment requirements

- Completion of a secondary school education is usually required.
- Completion of a college program in recreation or physical education or extensive experience in a specific recreational or sports program activity is usually required.
- Certification is usually required in a specific area of recreational activity, athletic activity or first aid or emergency care, such as a swimming instructor's certificate, a ski instructor's certificate, a first aid certificate or a fitness leadership certificate.
- Demonstrated ability in a particular recreational or sports discipline is required.

Classified elsewhere

- *Other Instructors* (4216)
- *Recreation and Sports Program and Service Directors* (0513)
- Recreation and sports supervisors (in 4167 *Recreation, Sports and Fitness Program Supervisors and Consultants*)

SALES AND SERVICE OCCUPATIONS

Major Group 62
SKILLED SALES AND SERVICE OCCUPATIONS

621 Sales and Service Supervisors

- 6211 Retail Trade Supervisors
- 6212 Food Service Supervisors
- 6213 Executive Housekeepers
- 6214 Dry Cleaning and Laundry Supervisors
- 6215 Cleaning Supervisors
- 6216 Other Service Supervisors

622 Technical Sales Specialists, Wholesale Trade

- 6221 Technical Sales Specialists – Wholesale Trade

623 Insurance and Real Estate Sales Occupations and Buyers

- 6231 Insurance Agents and Brokers
- 6232 Real Estate Agents and Salespersons
- 6233 Retail and Wholesale Buyers
- 6234 Grain Elevator Operators

624 Chefs and Cooks

- 6241 Chefs
- 6242 Cooks

625 Butchers and Bakers

- 6251 Butchers and Meat Cutters – Retail and Wholesale
- 6252 Bakers

626 Police Officers and Firefighters

- 6261 Police Officers (Except Commissioned)
- 6262 Firefighters

627 Technical Occupations in Personal Service

- 6271 Hairstylists and Barbers
- 6272 Funeral Directors and Embalmers

Major Group 64
INTERMEDIATE SALES AND SERVICE OCCUPATIONS

641 Sales Representatives, Wholesale Trade

- 6411 Sales Representatives – Wholesale Trade (Non-Technical)

642 Retail Salespersons and Sales Clerks

6421 Retail Salespersons and Sales Clerks

643 Occupations in Travel and Accommodation

6431 Travel Counsellors
6432 Pursers and Flight Attendants
6433 Airline Sales and Service Agents
6434 Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)
6435 Hotel Front Desk Clerks

644 Tour and Recreational Guides and Casino Occupations

6441 Tour and Travel Guides
6442 Outdoor Sport and Recreational Guides
6443 Casino Occupations

645 Occupations in Food and Beverage Service

6451 Maîtres d'hôtel and Hosts/Hostesses
6452 Bartenders
6453 Food and Beverage Servers

646 Other Occupations in Protective Service

6461 Sheriffs and Bailiffs
6462 Correctional Service Officers
6463 By-law Enforcement and Other Regulatory Officers, n.e.c.
6464 Occupations Unique to the Armed Forces
6465 Other Protective Service Occupations

647 Childcare and Home Support Workers

6471 Visiting Homemakers, Housekeepers and Related Occupations
6472 Elementary and Secondary School Teacher Assistants
6474 Babysitters, Nannies and Parents' Helpers

648 Other Occupations in Personal Service

6481 Image, Social and Other Personal Consultants
6482 Estheticians, Electrologists and Related Occupations
6483 Pet Groomers and Animal Care Workers
6484 Other Personal Service Occupations

Major Group 66
ELEMENTAL SALES AND SERVICE OCCUPATIONS

661 Cashiers

6611 Cashiers

662 Other Sales and Related Occupations

6621 Service Station Attendants
6622 Grocery Clerks and Store Shelf Stockers
6623 Other Elemental Sales Occupations

664 Food Counter Attendants, Kitchen Helpers and Related Occupations

6641 Food Counter Attendants, Kitchen Helpers and Related Occupations

665 Security Guards and Related Occupations

6651 Security Guards and Related Occupations

666 Cleaners

6661 Light Duty Cleaners
6662 Specialized Cleaners
6663 Janitors, Caretakers and Building Superintendents

667 Other Occupations in Travel, Accommodation, Amusement and Recreation

6671 Operators and Attendants in Amusement, Recreation and Sport
6672 Other Attendants in Accommodation and Travel

668 Other Elemental Service Occupations

6681 Dry Cleaning and Laundry Occupations
6682 Ironing, Pressing and Finishing Occupations
6683 Other Elemental Service Occupations

6211 Retail Trade Supervisors

Retail trade supervisors supervise and co-ordinate the activities of workers in the following unit groups: *Retail Salespersons and Sales Clerks* (6421), *Cashiers* (6611), *Grocery Clerks and Store Shelf Stockers* (6622) and *Other Elemental Sales Occupations* (6623). They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public and businesses involved in door-to-door soliciting and telemarketing.

Examples of titles classified in this unit group

department store supervisor
head cashier
liquor store supervisor
produce department supervisor
rental service supervisor
route supervisor, retail sales
telemarketing supervisor

Main duties

Retail trade supervisors perform some or all of the following duties:

- Supervise and co-ordinate sales staff and cashiers
- Assign sales workers to duties and prepare work schedules
- Authorize payments by cheque and the return of merchandise
- Sell merchandise to customers
- Resolve problems that arise, such as customer complaints and supply shortages
- Maintain specified inventory and order merchandise
- Prepare reports regarding sales volumes, merchandising and personnel matters
- Hire and train or arrange for the training of new sales staff.

Employment requirements

- Completion of secondary school is usually required.
- Previous retail sales experience such as retail salesperson or sales clerk, cashier, telemarketer, door-to-door salesperson or rental agent is required.

Additional information

- Progression to management positions in retail trade is possible with additional training or experience.

Classified elsewhere

- *Food Service Supervisors* (6212)
- *Retail Trade Managers* (0621)

6212 Food Service Supervisors

Food service supervisors, supervise, direct and co-ordinate the activities of workers who prepare, portion and serve food. They are employed by hospitals and other health care establishments and by cafeterias, catering companies and other food service establishments.

Examples of titles classified in this unit group

cafeteria supervisor, food services
catering supervisor
canteen supervisor
food service supervisor

Main duties

Food service supervisors perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of staff who prepare, portion and serve food
- Estimate and order ingredients and supplies required for meal preparation
- Prepare food order summaries for chef according to requests from dieticians, patients in hospitals or other customers
- Establish methods to meet work schedules
- Maintain records of stock, repairs, sales and wastage
- Train staff in job duties, and sanitation and safety procedures
- Supervise and check assembly of regular and special diet trays and delivery of food trolleys to hospital patients
- Ensure that food and service meet quality control standards
- May participate in the selection of food service staff and assist in the development of policies, procedures and budgets
- May plan cafeteria menus and determine related food and labour costs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a community college program in food service administration, hotel and restaurant management or related discipline
  or
  Several years of experience in food preparation or service are required.

Classified elsewhere

- Banquet captains (in 6453 *Food and Beverage Servers*)
- *Maîtres d'Hôtel and Hosts/Hostesses* (6451)
- *Restaurant and Food Service Managers* (0631)

6213 Executive Housekeepers

Executive housekeepers direct and control the operations of housekeeping departments within hotels, hospitals and other establishments.

Example of titles classified in this unit group

assistant executive housekeeper
executive housekeeper
hospital executive housekeeper
hotel executive housekeeper
housekeeping director
housekeeping manager

Main duties

Executive housekeepers perform some or all of the following duties:

- Establish and implement operational procedures for the housekeeping department
- Plan and co-ordinate the activities of housekeeping supervisors and their crews
- Co-ordinate the inspection of assigned areas to ensure that health regulations, safety standards and departmental policies are being met
- Select and purchase equipment and supplies, and maintain inventory
- Arrange for maintenance and repair of equipment and machinery
- Hire, train and supervise housekeeping staff
- Maintain financial records and prepare budgets, payroll and employee schedules.

Employment requirements

- Completion of secondary school is usually required.
- A university degree or college diploma in hospital management, hotel management or business administration is usually required.
- Extensive experience as a cleaning supervisor may substitute for formal education requirements.

Classified elsewhere

- *Accommodation Service Managers* (0632)
- *Facility Operations and Maintenance Managers* (0721)
- Housekeeping supervisors (in 6215 *Cleaning Supervisors*)

6214 Dry Cleaning and Laundry Supervisors

Dry cleaning and laundry supervisors supervise and co-ordinate the activities of workers in the following unit groups: *Dry Cleaning and Laundry Occupations* (6681) and *Ironing, Pressing and Finishing Occupations* (6682). They are employed by dry cleaning and laundry establishments, fur cleaning establishments, commercial laundries and laundries in hotels, hospitals and other institutions.

Examples of titles classified in this unit group

dry cleaning supervisor
foreman/woman – laundry and dry cleaning
laundry supervisor
production supervisor, dry cleaning

Main duties

Dry cleaning and laundry supervisors perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of dry cleaning and laundry staff
- Establish and implement production routines and co-ordinate work activities with other departments
- Monitor quality and production levels
- Requisition supplies
- Hire and train or arrange for training of workers
- Oversee the cleaning of suedes, leathers and other difficult items.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a dry cleaning or laundry machine operator is required.

Additional information

- Progression to managerial positions, such as dry cleaning managers, is possible with additional training or experience.

Classified elsewhere

- *Dry Cleaning and Laundry Occupations* (6681)
- Dry cleaning services managers (in 0651 *Other Services Managers*)

6215 Cleaning Supervisors

Cleaning supervisors supervise and co-ordinate the activities of workers in the following unit groups: *Light Duty Cleaners* (6661), *Specialized Cleaners* (6662), and *Janitors, Caretakers and Building Superintendents* (6663). Cleaning supervisors are employed by hospitals and other health care institutions, hotels, motels, schools and other educational institutions, commercial and industrial establishments, home and office cleaning establishments and by various specialized cleaning companies.

Examples of titles classified in this unit group

building cleaning supervisor
carpet cleaning supervisor
cleaning supervisor
head caretaker
head custodian
head janitor
window washing supervisor

Main duties

Cleaning supervisors perform some or all of the following duties:

- Supervise and co-ordinate the work of light duty, industrial or specialized cleaners and janitors
- Inspect sites or facilities to ensure established safety and cleanliness standards are met
- Recommend or arrange for additional services required such as painting, repair work, renovations or replacement of furnishings and equipment
- Hire and train cleaning staff
- Prepare work schedule and co-ordinate activities with those of other departments
- Prepare budget, estimate costs and keep financial records
- Receive payment for specialized cleaning jobs
- May perform certain cleaning duties.

Employment requirements

- Completion of secondary school is usually required.
- Previous experience in a particular area of cleaning is usually required.
- Previous supervisory experience may be required.

Classified elsewhere

- Building maintenance supervisors (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)
- *Executive Housekeepers* (6213)
- *Specialized Cleaners* (6662)

6216 Other Service Supervisors

Supervisors in this unit group supervise and co-ordinate the activities of hotel accommodation service clerks, theatre ushers and attendants, reservation clerks, sport and recreation club workers, commissionaires, security guards and other service workers not elsewhere classified. They are employed by service establishments throughout the public and private sectors.

Examples of titles classified in this unit group

camp ground supervisor
hotel clerk supervisor
parking lot supervisor
reservations supervisor
supervisor, clubhouse attendants
supervisor, commissionaires
supervisor, security guards
supervisor, ski lift attendants
supervisor, theatre attendants
supervisor, ticket takers
tour guide supervisor
travel clerk supervisor

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of hotel, motel and other accommodation services clerks, theatre ushers and attendants, reservation clerks, sport and recreation club workers, commissionaires, and other service workers not elsewhere classified
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Hire and train staff in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college courses related to area supervised may be required.
- Experience in the occupation supervised is usually required.
- Certification or licensing may be required for some occupations in this group (i.e., supervisors of commissionaires or security guards).

Classified elsewhere

- *Accommodation Service Managers* (0632)
- *Cleaning Supervisors* (6215)
- *Dry Cleaning and Laundry Supervisors* (6214)
- *Executive Housekeepers* (6213)
- *Food Service Supervisors* (6212)
- *Other Services Managers* (0651)
- *Retail Trade Supervisors* (6211)

6221 Technical Sales Specialists – Wholesale Trade

Technical sales specialists, wholesale trade, sell a range of technical goods and services, such as scientific and industrial products, electricity, telecommunications services and computer services, to governments and to commercial and industrial establishments in domestic and international localities. They are employed by establishments that produce or provide technical goods and services, such as pharmaceutical companies, industrial equipment manufacturing companies, computer services firms, engineering firms and hydroelectric companies, or may be self-employed technical sales specialists/agents who contract their services to other companies. Technical sales specialists who are supervisors are included in this unit group.

Examples of titles classified in this unit group

aircraft sales representative
communication equipment sales representative
construction equipment sales representative
electricity sales representative
heavy equipment sales representative
industrial supplies sales representative
medical instrumentation sales agent
sales engineer, technical support
software sales representative
technical sales representative
technical sales supervisor
technical support specialist

Main duties

Technical sales specialists perform some or all of the following duties:

- Promote sales to existing clients
- Identify and solicit potential clients
- Assess client's needs and resources and recommend the appropriate goods or services
- Provide input into product design where goods or services must be tailored to suit client's needs
- Develop reports and proposals as part of sales presentation to illustrate benefits from use of good or service
- Estimate costs of installing and maintaining equipment or service
- Prepare and administer sales contracts
- Consult with clients after sale to resolve problems and to provide ongoing support
- Troubleshoot technical problems related to equipment
- May train customers' staff in the operation and maintenance of equipment
- May conduct sales transactions through Internet-based electronic commerce
- May supervise the activities of other technical sales specialists.

Technical sales specialists usually specialize in a particular line of goods or services.

Employment requirements

- A university degree or college diploma in a program related to the product or service is usually required.
- Experience in sales or in a technical occupation related to the product or service may be required.
- Fluency in a specific foreign language, and/or foreign work or travel experience may be required for technical sales specialists seeking employment with companies that import or export technical goods or services.
- Technical sales supervisors require experience as a technical sales specialist.

Additional information

- Extensive company training programs for technical sales specialists may be provided by employers.
- Progression to sales management positions is possible with additional training or experience.

Classified elsewhere

- *Retail Salespersons and Sales Clerks* (6421)
- *Sales, Marketing and Advertising Managers* (0611)
- *Sales Representatives – Wholesale Trade (Non-Technical)* (6411)

6231 Insurance Agents and Brokers

Insurance agents and brokers sell life, automobile, property, health and other types of insurance to individuals, businesses and public institutions. Insurance brokers purchase insurance from a variety of companies on behalf of clients. Insurance agents are employed by individual insurance companies or are independent representatives of specific insurance companies. Insurance brokers are employed by brokerage firms, or may work in partnerships or hold sole proprietorship.

Examples of titles classified in this unit group

insurance agent
insurance broker
insurance sales representative

Main duties

Insurance agents and brokers perform some or all of the following duties:

- Sell automobile, fire, health, life, property, marine, aircraft and other types of insurance to clients
- Establish client insurance coverage, calculate premiums and establish method of payment
- Provide information concerning group and individual insurance packages, the range of risk coverage, benefits paid and other policy features
- Ensure appropriate forms, medical examinations and other policy requirements are completed
- Monitor insurance claims and respond to clients' enquiries
- Identify and solicit potential clientele.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training and insurance industry courses and training programs are provided and are required for employment.
- Licensure by the insurance governing body in the province or territory of employment is required.

Additional information

- Progression to insurance management positions is possible through experience.
- Completion of educational programs through the Insurance Institute of Canada or its provincial counterpart entitles agents to professional recognition as an Associate of the Insurance Institute of Canada (A.I.I.C.) or Fellow of the Insurance Institute of Canada (F.I.I.C.).
- Completion of educational courses through the Canadian Association of Insurance and Financial Advisors allows for various levels of professional designations for insurance and financial advisors.

Classified elsewhere

- *Insurance Underwriters* (1234)
- Insurance managers (in 0121 *Insurance, Real Estate and Financial Brokerage Managers*)

6232 Real Estate Agents and Salespersons

Real estate agents and salespersons act as agents for the sales or purchase of houses, apartments, commercial buildings, land and other real estate and are employed in the real estate industry.

Examples of titles classified in this unit group

commercial real estate agent
real estate agent
real estate broker
real estate sales representative
residential real estate agent
supervisor, real estate agents

Main duties

Real estate agents and salespersons perform some or all of the following duties:

- Solicit property sales listings from prospective vendors
- Assist vendors in selling property by establishing asking price, advertising the property, listing the property with listing services and conducting open houses for prospective buyers
- Assist prospective buyers in selecting, visiting, inspecting and making offers of purchase on real estate properties
- Advise clients on market conditions, prices, mortgages, legal requirements and related matters
- Draw up sales agreements for approval of purchaser and seller
- May rent or lease properties on behalf of clients.

Real estate agents and salespersons may specialize in residential, commercial, industrial/institutional or rural real estate sales.

Employment requirements

- Completion of secondary school is required.
- Completion of a real estate training course is required.
- Provincial or territorial licensure in the province or territory of employment is required.

Additional information

- Real estate agents and salespersons normally work on a commission basis.
- Real estate agents may operate independently by obtaining a broker's licence in accordance with the regulations of the province of employment. A broker's licence is required to become a manager in real estate.

Classified elsewhere

- *Assessors, Valuators and Appraisers* (1235)
- *Insurance, Real Estate and Financial Brokerage Managers* (0121)
- Mortgage brokers (in 1114 *Other Financial Officers)*
- Rental agents (in 1224 *Property Administrators)*
- Right-of-way agents (in 1225 *Purchasing Agents and Officers*)

6233 Retail and Wholesale Buyers

Retail and wholesale buyers buy merchandise for resale by retail and wholesale establishments and are usually responsible for the merchandising operations of retail and wholesale establishments. Retail and wholesale buyers who are supervisors and those who are assistants are included in this unit group.

Examples of titles classified in this unit group

appliance buyer
assistant buyer
buyer – retail
buyer – wholesale
chief buyer
clothing buyer
food buyer
merchandiser
produce buyer
taster and buyer, beverages

Main duties

Retail and wholesale buyers perform some or all of the following duties:

- Purchase merchandise for resale by retail or wholesale establishments
- Review requirements of establishment and determine quantity and type of merchandise to purchase
- Study market reports, trade periodicals and sales promotion materials and visit trade shows, showrooms, factories and product design events
- Select the merchandise which best fits the establishment's requirements
- Interview suppliers and negotiate prices, discounts, credit terms and transportation arrangements
- Oversee distribution of merchandise to outlets and maintain adequate stock levels
- Establish and maintain contact with suppliers
- Supervise the work of other retail buyers.

Retail and wholesale buyers may specialize in a particular merchandise line.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business, marketing or a related program is usually required.
- Previous work experience in retail or wholesale establishments is usually required.
- Supervisors and senior buyers require supervisory experience.

Additional information

- Retail and wholesale buyers may specialize through experience or product-related training courses.
- Progression to management positions in retail trade, sales, marketing or advertising is possible with additional training or experience.

Classified elsewhere

- *Purchasing Agents and Officers* (1225)

6234 Grain Elevator Operators

Grain elevator operators purchase grain from farmers, determine the grade, quality and weight of grain delivered, and maintain records for farmers and companies. They are employed by licensed grain elevator companies.

Examples of titles classified in this unit group

assistant grain elevator manager
grain elevator district manager
grain elevator operator
primary grain elevator operator

Main duties

Grain elevator operators perform some or all of the following duties :

- Calculate grain quota from information supplied by farmers and the Canadian Wheat Board
- Record quota and subsequent deliveries of grain from individual farmers
- Examine grain samples and conduct tests to determine grade and quality of grain
- Purchase grain and arrange for transport or storage of grain
- Weigh and record type of grain received or in storage and report data to grain company and Canadian Wheat Board
- Supervise activities of workers who operate equipment to clean and move grain in the elevator and who load trucks and rail cars, or operate equipment themselves to perform these activities
- Act as a farm supply sales agent for fertilizers, insecticides, and other farm supplies
- Maintain proper operation of elevator equipment.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience working in a grain elevator are required.
- A pesticide dispenser's licence is required by licensed grain elevator operators.
- On-the-job training is provided.
- Grain elevator operators who sell pesticides require a dealer or vendor licence.

Additional information

- Progression from grain elevator manager to district manager is possible with experience.

Classified elsewhere

- Managers of grain terminal elevators (in 0721 *Facility Operation and Maintenance Managers)*

6241 Chefs

This unit group includes various types of chefs who plan and direct food preparation and cooking activities and who prepare and cook meals and specialty foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs and similar establishments, and on ships.

Examples of titles classified in this unit group

chef
chef de cuisine
chef de partie
corporate chef
executive chef
executive sous-chef
head chef
master chef
pastry chef
saucier
sous-chef
specialist chef

Main duties

Executive chefs perform some or all of the following duties:

- Plan and direct food preparation and cooking activities of several restaurants in an establishment, restaurant chains, hospitals or other establishments with food services
- Plan menus and ensure food meets quality standards
- Estimate food requirements and may estimate food and labour costs
- Supervise activities of sous-chefs, specialist chefs, chefs and cooks
- Arrange for equipment purchases and repairs
- Recruit and hire staff
- May prepare and cook food on a regular basis, or for special guests or functions.

Sous-chefs perform some or all of the following duties:

- Supervise activities of specialist chefs, chefs, cooks and other kitchen workers
- Demonstrate new cooking techniques and new equipment to cooking staff
- May plan menus and requisition food and kitchen supplies
- May prepare and cook meals or specialty foods.

Chefs and specialist chefs perform some or all of the following duties:

- Prepare and cook complete meals, banquets or specialty foods, such as pastries, sauces, soups, salads, vegetables and meat, poultry and fish dishes, and create decorative food displays
- Instruct cooks in preparation, cooking, garnishing and presentation of food
- Supervise cooks and other kitchen staff
- May plan menus
- May requisition food and kitchen supplies.

Employment requirements

- Completion of secondary school is usually required.
- Cook's trade certification, which is available in all provinces and territories, or equivalent credentials, training and experience, are required.
- Executive chefs usually require management training and several years of experience in commercial food preparation, including two years in a supervisory capacity
  and
  Experience as a sous-chef, specialist chef or chef.
- Sous-chefs, specialist chefs and chefs usually require several years of experience in commercial food preparation.
- Interprovincial trade certification (Red Seal) for cooks is also available to qualified chefs.
- Chef de cuisine certification, administered by the Canadian Culinary Institute of the Canadian Federation of Chefs and Cooks (CFCC), is available to qualified chefs.

Additional information

- There is some mobility among the various types of chefs in this unit group.
- Executive chefs may progress to managerial positions in food preparation establishments.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Cooks* (6242)
- *Food Counter Attendants, Kitchen Helpers and Related Occupations* (6641)
- *Restaurant and Food Service Managers* (0631)

6242 Cooks

Cooks prepare and cook a wide variety of foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, educational institutions and other establishments. Cooks are also employed aboard ships and at construction and logging campsites. Apprentice cooks are included in this unit group.

Examples of titles classified in this unit group

apprentice cook
cook
dietary cook
first cook
grill cook
hospital cook
institutional cook
journeyman/woman cook
licensed cook
line cook
second cook
short order cook

Main duties

Cooks perform some or all of the following duties:

- Prepare and cook complete meals or individual dishes and foods
- Prepare and cook special meals for patients as instructed by dietitian or chef
- Supervise kitchen helpers
- Oversee subordinate personnel in preparation, cooking and handling of food
- May plan menus, determine size of food portions, estimate food requirements and costs, and monitor and order supplies.

Cooks may specialize in preparing and cooking ethnic cuisine or special dishes.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program for cooks
  or
  Completion of college or other program in cooking
  or
  Several years of commercial cooking experience are required.
- Trade certification is available but voluntary in all provinces and Territories.
- Interprovincial trade certification (Red Seal) is also available to qualified cooks.

Additional information

- There is mobility among the various types of cooks in this group.
- Progression to supervisory or more senior positions, such as chef, is possible with experience and training.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Chefs* (6241)
- *Food Counter Attendants, Kitchen Helpers and Related Occupations* (6641)

6251 Butchers and Meat Cutters – Retail and Wholesale

Butchers and meat cutters, retail and wholesale, prepare standard cuts of meat, poultry, fish and shellfish for sale in retail or wholesale food establishments. They are employed in supermarkets, grocery stores, butcher shops, fish stores or may be self-employed. Butchers who are supervisors or heads of departments are included in this group.

Examples of titles classified in this unit group

butcher, retail
butcher apprentice
head butcher – wholesale
meat cutter, retail or wholesale
supermarket meat cutter

Main duties

Butchers and meat cutters in this unit group perform some or all of the following duties:

- Cut, trim, and otherwise prepare standard cuts of meat, poultry, fish and shellfish for sale at self-serve counters or according to customers' orders
- Grind meats and slice cooked meats using powered grinders and slicing machines
- Prepare special displays of meat, poultry, fish and shellfish
- Shape, lace and tie roasts and other meats, poultry or fish and may wrap prepared meats, poultry, fish and shellfish
- Determine amount and type of meat cuts to be prepared, maintain inventories and keep records of meat sales
- May supervise other butchers or meat cutters.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college or other meat-cutting training program, or a three-year meat cutting apprenticeship may be required.
- On-the-job training in food stores is usually provided for retail butchers and meat cutters.
- Trade certification is available, but voluntary, in British Columbia.

Classified elsewhere

- *Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers* (9462)

6252 Bakers

Bakers prepare bread, rolls, muffins, pies, pastries, cakes and cookies in retail and wholesale bakeries and dining establishments. They are employed in bakeries, supermarkets, catering companies, hotels, restaurants, hospitals, and other institutions, or they may be self-employed. Bakers who are supervisors are included in this unit group.

Examples of titles classified in this unit group

baker
baker apprentice
bakery supervisor
head baker

Main duties

Bakers perform some or all of the following duties:

- Prepare dough for pies, bread and rolls and sweet goods, and prepare batters for muffins, cookies, cakes, icings and frostings according to recipes or special customer orders
- Operate machinery
- Bake mixed doughs and batters
- Frost and decorate cakes or other baked goods
- Ensure quality of products meet established standards
- Draw up production schedule to determine type and quantity of goods to produce
- Purchase baking supplies
- May oversee sales and merchandising of baked goods.
- May hire, train and supervise baking personnel and kitchen staff.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three or four-year apprenticeship program for bakers
  or
  Completion of a college or other program for bakers is usually required.
- On-the-job training may be provided.
- Trade certification is available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Quebec, Ontario, Alberta, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified bakers.

Additional information

- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Baking machine operators (in 9461 *Process Control and Machine Operators, Food and Beverage Processing*)
- Pastry chefs (in 6241 *Chefs*)

6261 Police Officers (Except Commissioned)

Police officers protect the public, detect and prevent crime and perform other activities directed at maintaining law and order. They are employed by municipal and federal governments, some provincial and regional governments and the Armed Forces. This unit group includes military police, and railway police.

Examples of titles classified in this unit group

community relations officer
constable
crime prevention constable
detective
harbour police officer
highway patrol officer
military police officer
police cadet
police diver
police officer
police sergeant
railway police officer
RCMP officer

Main duties

Police officers perform some or all of the following duties:

- Patrol assigned areas to maintain public safety and order and to enforce laws and regulations
- Investigate crimes and accidents, secure evidence, interview witnesses, compile notes and reports and provide testimony in courts of law
- Arrest criminal suspects
- Provide emergency assistance to victims of accidents, crimes and natural disasters
- Participate in crime prevention, public information and safety programs
- May supervise and co-ordinate the work of other police officers.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program or university degree in law and security or in the social sciences may be required.
- A three to six-month police training program is provided.
- Physical agility, strength, fitness and vision requirements must be met, and psychological or other tests may also be required.
- Experience as a constable and the completion of specialized courses are required for detectives and sergeants.

Additional information

- Progression to commissioned police officer positions is possible with additional training and experience.

Classified elsewhere

- *By-law Enforcement and Other Regulatory Officers, n.e.c.* (6463)
- *Commissioned Police Officers* (0641)
- Private detectives (in 6465 *Other Protective Service Occupations*)
- *Sheriffs and Bailiffs* (6461)

6262 Firefighters

Firefighters carry out firefighting and fire prevention activities, and assist in other emergencies. They are employed by municipal, provincial and federal governments and by large industrial establishments that have internal firefighting services.

Examples of titles classified in this unit group

airport firefighter
fire captain
firefighter
firefighter, shipboard
industrial firefighter
lieutenant, firefighter

Main duties

Firefighters perform some or all of the following duties:

- Respond to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies
- Rescue victims from burning buildings and accident sites
- Control and extinguish fires using manual and power equipment, such as axes, water hoses, aerial ladders and hydraulic equipment and various firefighting chemicals
- Administer first-aid and other assistance
- Ensure proper operation and maintenance of firefighting equipment
- Inform and educate the public on fire prevention
- Train to maintain high level of physical fitness
- Assist the public, the police and emergency organizations during times of major disasters
- May participate as members of a trauma or emergency response team and provide paramedical aid to accident victims or ill persons
- May supervise and co-ordinate the work of other firefighters.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in fire protection technology or a related field may be required.
- Firefighting and emergency medical care training courses are provided and vary in length depending on the requirements of different fire departments or services.
- An apprenticeship training program for firefighters and voluntary trade certification is available in New Brunswick.
- Experience as a volunteer firefighter may be an advantage.
- Physical agility, strength, fitness and vision requirements must be met.
- Several years of experience are required for senior firefighters, such as lieutenants and captains.

Additional information

- Progression to senior positions such as fire chief is possible with additional training and several years of experience.

Classified elsewhere

- *Fire Chiefs and Senior Firefighting Officers* (0642)
- Forest firefighters (in 8422 *Silviculture and Forestry Workers*)
- Paramedics (in 3234 *Ambulance Attendants and Other Paramedical Occupations*)

6271 Hairstylists and Barbers

Hairstylists and barbers cut and style hair and perform related services. They are employed in hairstyling or hairdressing salons, barber shops, vocational schools, health care establishments and theatre, film and television establishments.

Examples of titles classified in this unit group

barber
barber apprentice
hair colour technician
hairdresser
hairdresser apprentice
hairstylist
hairstylist apprentice
wig stylist

Main duties

Hairstylists perform some or all of the following duties:

- Suggest hair style compatible with client's physical features or determine style from client's instructions and preferences
- Cut, trim, taper, curl, wave, perm and style hair
- Apply bleach, tints, dyes or rinses to colour, frost or streak hair
- Analyze hair and scalp condition and provide basic treatment or advice on beauty care treatments for scalp and hair
- May shampoo and rinse hair
- May train or supervise other hairstylists, hairstylist apprentices and helpers.

Barbers perform some or all of the following duties:

- Cut and trim hair according to client's instructions or preferences
- Shave and trim beards and moustaches
- May shampoo hair and provide other hair treatment, such as waving, straightening and tinting and may also provide scalp conditioning massages
- May train and supervise other barbers and barber apprentices.

Employment requirements

Hairstylists

- Some secondary school education is required.
- Completion of a two- or three-year hairstyling apprenticeship program or completion of a college or other program in hairstyling combined with on-the-job training is usually required.
- Several years of experience may replace formal education and training.
- Employers may require applicants to provide a hairstyling demonstration before being hired.
- There are various provincial/territorial certification and licensing requirements for hairstylists, ranging from trade certification to licensing by a provincial/territorial association. Interprovincial trade certification (Red Seal) is also available for qualified hairstylists.

Barbers

- Some secondary school education is required.
- Completion of a two-year apprenticeship or other barber program is usually required.
- On-the-job training may be substituted for formal education.
- There are various provincial/territorial certification and licensing requirements for barbers, ranging from trade certification to licensing by a provincial/territorial association. Barbers can also obtain interprovincial trade certification (Red Seal) as qualified hairstylists.

Additional Information

- Red Seal trade certification allows for interprovincial mobility.

6271 Hairstylists and Barbers

Classified elsewhere

- *Estheticians, Electrologists and Related Occupations* (6482)
- Hairdressing teachers (in 4131 *College and Other Vocational Instructions*)

6272 Funeral Directors and Embalmers

Funeral directors co-ordinate and arrange all aspects of funeral services. Embalmers prepare the remains of deceased persons for public visitation and burial. Funeral directors and embalmers are employed by funeral homes.

Examples of titles classified in this unit group

apprentice embalmer
embalmer
funeral director

Main duties

Funeral directors perform some or all of the following duties:

- Consult with the family of the deceased regarding the nature of the funeral service, the disposition of the remains and funeral costs
- Transfer, or arrange for the transfer of, the remains from the place of death to the funeral home
- Inform survivors of benefits for which they may be eligible
- Issue death notices to newspapers
- Oversee the preparation of the remains, plan and schedule funeral services, co-ordinate burials and cremations and complete legal documents
- Discuss and negotiate pre-arranged funerals with clients
- Manage funeral home operations including hiring and directing staff, maintaining financial records, preparing accounts and ordering merchandise
- Supervise embalmers, funeral home attendants and other funeral home staff
- May perform same duties as embalmers.

Embalmers perform some or all of the following duties:

- Preserve, sanitize and prepare human remains for funeral services
- Perform cosmetic and restorative work on human remains
- Supervise funeral home attendants and other funeral home staff.

Employment requirements

- Completion of a one to two year college program and a twelve to twenty month practical apprenticeship program during or following the educational program is usually required for funeral directors.
- Completion of a two to three year college program and a twelve to twenty month practical apprenticeship program during or following the educational program
  or
  Completion of a three year college program is required for embalmers.
- Funeral directors require licensure in most provinces and territories.
- Funeral directors may be required to be licensed embalmers depending on provincial requirements.
- Embalmers require licensure in all provinces.

Classified elsewhere

- Bereavement counsellor (in 4153 *Family, Marriage and Other Related Counsellors*)
- Funeral home attendants (in 6683 *Other Elemental Service Occupations*)
- Funeral service general managers (in 0015 *Senior Managers – Trade, Broadcasting and Other Services, n.e.c.*)

6411 Sales Representatives – Wholesale Trade (Non-Technical)

Sales representatives, wholesale trade (non-technical), sell non-technical goods and services to retail, wholesale, commercial, industrial, professional and other clients domestically and internationally. They are employed by establishments that produce or provide goods and services such as petroleum companies, food, beverage and tobacco producers, clothing manufacturers, motor vehicles and parts manufacturers, hotels, business services firms, and transportation companies. Auctioneers are included in this unit group. Sales representatives, wholesale trade who are supervisors are also included in this unit group.

Examples of titles classified in this unit group

food products sales representative
freight sales agent
graphic design sales representative
hotel accommodations sales executive
liquor sales representative
magazine sales representative
oil distributor
periodicals sales representative
security services sales consultant
supervisor, wholesale trade representatives
transfer company agent

Main duties

Sales representatives, wholesale trade (non-technical), perform some or all of the following duties:

- Promote sales to existing clients
- Identify and solicit potential clients
- Provide clients with presentations on the benefits and uses of goods or services
- Estimate or quote prices, credit or contract terms, warranties and delivery dates
- Prepare or oversee preparation of sales or other contracts
- Consult with clients after sale or signed contracts to resolve problems and to provide ongoing support
- Review and adapt to information regarding product innovations, competitors and market conditions
- Represent companies that export and import products or services to and from foreign countries
- May conduct sales transactions through Internet-based electronic commerce
- May supervise the activities of other sales representatives.

Employment requirements

- Completion of secondary school is required.
- A university degree or completion of a college or other program may be required.
- Experience in sales or in an occupation related to the product or service is usually required.
- Fluency in a foreign language and/or foreign country work or travel experience may be required for sales representatives seeking employment with companies that import or export goods or services.
- Supervisors and senior sales representatives require experience.
- Voluntary certification is available from the Canadian Professional Sales Association.

Additional information

- Progression to sales management positions is possible with additional training or experience.

Classified elsewhere

- *Retail Salespersons and Sales Clerks* (6421)
- Royalties Manager (in 0512 *Managers - Publishing, Motion Pictures, Broadcasting and Performing Arts*
- *Sales, Marketing and Advertising Managers* (0611)
- *Technical Sales Specialists -Wholesale Trade* (6221)

6421 Retail Salespersons and Sales Clerks

Retail salespersons and sales clerks sell, rent or lease a range of technical and non-technical goods and services directly to consumers. They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public.

Examples of titles classified in this unit group

audio equipment salesperson
automobile salesperson
car rental agent
clothing salesperson
computer salesperson – retail
counter clerk – retail
department store clerk
furniture salesperson
hardware store clerk
jewellery salesperson
retail sales associate
retail sales clerk
retail salesperson

Main duties

Retail salespersons and sales clerks perform some or all of the following duties:

- Greet customers and discuss the type, quality and quantity of merchandise or services sought for purchase, rental or lease
- Advise customers on use and care of merchandise, and provide advice concerning specialized products or services
- Estimate or quote prices, credit terms, trade-in allowances, warranties and delivery dates
- Prepare merchandise for purchase, rental or lease
- Prepare sales, rental or leasing contracts and accept cash, cheque, credit card or automatic debit payment
- Assist in the display of merchandise
- Maintain sales records for inventory control
- Operate computerized inventory record keeping and re-ordering systems
- May conduct sales transactions through internet based electronic commerce.

Retail salespersons may specialize and act as consultants in interior decorating, home entertainment systems, computers and other products and services.

Employment requirements

- Completion of secondary school may be required.
- A university degree or college diploma may be required by some employers.
- Specific subject matter courses or training may be required.
- Demonstrated sales ability and product knowledge are usually required for retail salespersons who sell complex or valuable merchandise, such as automobiles, antiques or computers.

Additional information

- Technical or sales training programs may be provided by employers.
- Progression to retail supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Cashiers* (6611)
- Retail stock clerks (in 6622 *Grocery Clerks and Store Shelf Stockers*)
- Sales clerk supervisors (in 6211 *Retail Trade Supervisors*)

[illegible] Travel Counsellors

Travel counsellors advise clients on travel options and tour packages, make bookings and reservations, prepare tickets and receive payment. They are employed in travel agencies, transportation and tourism firms and hotel chains.

Examples of titles classified in this unit group

travel agent
travel consultant
travel counsellor

Main duties

Travel counsellors perform some or all of the following duties:

- Provide travel information to clients regarding destinations, transportation and accommodation options and travel costs, and recommend suitable products
- Plan and organize vacation travel for individuals or groups
- Make transportation and accommodation reservations using computerized reservation and ticketing system
- Sell single fare tickets and package tours to clients
- Promote particular destinations, tour packages and other travel services
- Investigate new travel destinations, hotels and other facilities and attractions
- Provide travel tips regarding tourist attractions, foreign currency, customs, languages and travel safety.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma or vocational training in travel or tourism is usually required.
- Certification with the Alliance of Canadian Travel Associations (ACTA) / Canadian Institute of Travel Counsellors (CITC) Canadian Educational Standards System (ACCESS) may be required. This certification is granted after three years of work experience in the industry and the completion of mandatory courses and examinations.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- Airline ticket agents (in 6433 *Airline Sales and Service Agents*)
- Convention co-ordinators (in 1226 *Conference and Event Planners*)
- Travel agency managers (in 0621 *Retail Trade Managers*)

6432 Pursers and Flight Attendants

Airline pursers and flight attendants ensure the safety and comfort of passengers and crew members during flights. Ship pursers attend to the safety and comfort of passengers aboard ships. Airline pursers and flight attendants are employed by airline companies. Ship pursers are employed by tour or cruise boat companies.

Examples of titles classified in this unit group

customer service director
flight attendant
flight service director
passenger service director
purser, airline
ship purser

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Flight attendants greet passengers, explain and demonstrate safety procedures, check the general condition of the aircraft cabin, ensure that all necessary supplies are on board, attend to safety of passengers during take-offs, landings and emergencies, serve food and beverages to passengers and make flight announcements.
- Flight pursers, customer service directors and passenger service directors co-ordinate the activities of flight attendants, provide service to passengers during flight and complete reports.
- Ship pursers supervise ship attendants, arrange activities for passengers and conduct ship's business, such as signing on crew, maintaining payroll records, assisting passengers in preparing customs declarations and supervising baggage storage.

Employment requirements

- Flight attendants and flight pursers require the completion of secondary school and a Transport Canada approved training program.
- Flight pursers/customer service directors require experience as a flight attendant.
- Ship pursers may require experience as a ship attendant.
- Flight attendants and ship pursers usually require experience working with the public.

Additional information

- There is little mobility between airline pursers and ship pursers.
- It is an advantage for pursers and flight attendants to speak more than one language.

Classified elsewhere

- Food and beverage servers on trains (in 6453 *Food and Beverage Servers*)
- Ship and rail service attendants (in 6672 *Other Attendants in Accommodation and Travel*)

6433 Airline Sales and Service Agents

Airline sales and service agents issue tickets, provide fare quotations, make reservations, conduct passenger check-in, trace missing baggage, arrange for cargo shipments and perform other related customer service duties to assist airline passengers. Airline sales and service agents are employed by airline companies. Load planners, who plan the positioning of cargo on aircraft, are also included in this unit group.

Examples of titles classified in this unit group

airline baggage agent
airline cargo agent
baggage tracer, airline
counter services agent, airline
customer service agent, airline
load planner, airline
passenger agent, airline
passenger service representative
reservation agent, airline
station agent, airline
ticket agent, airline

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Airline passenger and ticket agents help customers plan travel time and routes, prepare and issue tickets, assign seats, prepare boarding passes, check baggage, attend boarding gates, assist pre-boarding passengers and provide information on fares and flight schedules and routes.
- Airline baggage agents trace lost, delayed or misdirected baggage for customers.
- Airline cargo agents weigh cargo and compute freight costs, calculate charges for services and insurance, process bills of landing, cargo manifests and other documents, trace lost or misdirected cargo and maintain shipping and other records.
- Airline reservation agents reserve seats for tour companies, travel agencies, wholesalers and the general public using computerized systems, provide information on airline passengers and process mileage points.
- Airline station agents complete pre-flight documents regarding passenger and cargo load, catering count, special requests and other flight information and relay operational messages to operations control and downline stations. They also perform duties of ticket, baggage and cargo agents.
- Airline load planners calculate load weights for compartments of aircraft using charts and computers and plan load to distribute and balance cargo.

Employment requirements

- Completion of secondary school is usually required.
- Several weeks of on-the-job and classroom training are provided for all occupations in this unit group.
- Airline station agents usually require experience as a ticket, baggage or cargo agent.
- Load planners require a restricted radio operator's licence and usually require airline operations experience.

Additional information

- Progression to supervisory positions is possible with experience.
- Depending on the size of the airline or airport, the duties of workers in this unit group may overlap.

Classified elsewhere

- Airline cargo and baggage handlers (in 7437 *Air Transport Ramp Attendants*)
- Supervisors of airline sales and service agents (in 6216 *Other Service Supervisors*)
- *Ticket Agents, Cargo Customer Service Representatives and Related Clerks (Except Airline)* (6434)
- *Travel Counsellors* (6431)

6434 Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)

Ticket agents, cargo service representatives and related clerks (except airline), quote fares and rates, make reservations, issue tickets, process cargo shipment, check baggage and perform other related customer service duties to assist travellers. They are employed by bus and railway companies, freight forwarding and shipping companies, boat cruise operators and other public transit establishments and by travel wholesalers.

Examples of titles classified in this unit group

bus ticket agent
cargo customer service representative
counter services agent, railway
railway passenger agent
reservation clerk, railway
ticket agent (except airline)

Main duties

Ticket agents in this unit group perform some or all of the following duties:

- Answer customer inquiries, quote fares and assist clients in planning travel times and routes
- Reserve seats for tour companies, travel agencies, wholesalers and the general public
- Issue tickets, handle cash transactions and check baggage
- Receive and record bookings for package tours from retail travel agencies and supply information regarding available vacancies when working for wholesale travel companies.

Cargo service representatives in this unit group perform some or all of the following duties:

- Quote fare and rates for cargo shipment
- Compute shipment costs including charges for services and insurance using rate tables and schedules and prepare and maintain shipping and other documents
- Check in passenger baggage and sort for loading by baggage handlers or may load baggage directly into buses, railway cars or cruise ships
- Trace lost or misdirected passenger baggage or cargo shipment.

Employment requirements

- Completion of secondary school is usually required.
- Up to 10 weeks of training may be provided.

Additional information

- Progression to supervisory positions is possible through experience.
- Ticket agents and cargo agents may perform the same duties depending on the size and location of the operations.

Classified elsewhere

- *Airline Sales and Service Agents* (6433)
- Baggage handlers in rail, marine and motor transportation (in 6672 *Other Attendants in Accommodation and Travel*)
- Supervisors of ticket and cargo agents and related clerks in this unit group (in 6216 *Other Service Supervisors*)
- *Travel Counsellors* (6431)

6435 Hotel Front Desk Clerks

Hotel front desk clerks make room reservations, provide information and services to guests and receive payment for services. They are employed by hotels, motels and resorts.

Examples of titles classified in this unit group

front desk clerk
front office clerk
guest service agent
guest service representative
hotel front desk clerk
night clerk
reservations clerk
room clerk

Main duties

Hotel front desk clerks perform some or all of the following duties:

- Maintain an inventory of vacancies, reservations and room assignments
- Register arriving guests and assign rooms
- Answer enquiries regarding hotel services and registration by letter, telephone and in person, provide information about services available in the community and respond to guests' complaints
- Compile and check daily record sheets, guest accounts, receipts and vouchers using computerized or manual systems
- Present statements of charges to departing guests and receive payment.

Employment requirements

- Completion of secondary school or equivalent is usually required.
- Completion of a two-year apprenticeship program, or a college program in front desk operations or hotel management may be required.
- Guest service trade certification is available, but voluntary, in all provinces and the Yukon from the Tourism Education Council.

Additional information

- Progression to senior positions such as accommodations manager is possible with additional training and experience.

Classified elsewhere

- *Other Attendants in Accommodation and Travel* (6672)
- *Travel Counsellors* (6431)

6441 Tour and Travel Guides

Tour and travel guides escort individuals and groups on trips, on sightseeing tours of cities and on tours of historical sites and establishments such as famous buildings, manufacturing plants, cathedrals and theme parks. They also provide descriptions and background information on interesting features. Tour and travel guides are employed by tour operators, resorts and other establishments or may be self-employed.

Examples of titles classified in this unit group

adventure travel site interpreter
calèche driver
factory tour guide
industrial site interpreter
sightseeing guide
tour guide
tourist guide
travel guide

Main duties

Tour guides perform some or all of the following duties:

- Transport or escort individuals or groups on tours of cities, waterways and industrial and other establishments
- Describe points of interest, answer questions and supply information
- Provide historical and cultural facts related to the site
- May collect admission fees and sell souvenirs.

Travel guides perform some or all of the following duties:

- Escort individuals and groups on vacation and business trips
- Ensure that reservations for transportation and accommodations are confirmed and that prepared itineraries are met
- Visit and describe points of interest and plan and carry out recreational activities
- Resolve problems with itineraries, service and accommodations.

Employment requirements

- On-the-job training is provided.
- Knowledge of both official languages or an additional language may be required for some positions in this group.

Classified elsewhere

- Museum guides and historical and heritage interpreters (in 5212 *Technical Occupations Related to Museums and Art Galleries*)
- *Outdoor Sport and Recreational Guides* (6442)
- Tour operators (in 0621 *Retail Trade Managers*)

6442 Outdoor Sport and Recreational Guides

Outdoor sport and recreational guides organize and conduct trips or expeditions for sports enthusiasts, adventurers, tourists and resort guests. They are employed by private companies and resorts or may be self-employed.

Examples of titles classified in this unit group

canoeing guide
dude wrangler
fishing guide
hot air balloonist
hunting guide
mountain climbing guide
outfitter
rafting guide

Main duties

Outdoor sport and recreational guides perform some or all of the following duties:

- Plan itinerary for trip or expedition and arrange transportation or transport individuals or group to site
- Assemble necessary equipment and supplies, such as camping gear, rafts, life jackets, fishing tackle and food
- Lead or escort individuals or groups and advise on safety and emergency measures, techniques and the use of equipment
- Provide instruction for activities such as canoeing, rafting and mountain climbing
- Advise on specific regulations such as hunting and fishing laws and boating regulations, follow environmental guidelines and prevent violations
- Provide first aid in emergency situations
- May prepare meals for group and set up camp.

Employment requirements

- Knowledge of a particular terrain or body of water, demonstrated ability in the guided activity and relevant licenses are required for employment in this group.
- Hot air balloon pilots require completion of 10 hours of ground school, 16 hours of pilot-in-command experience and federal licensure.
- Certification in first aid and CPR (cardiopulmonary resuscitation) may be required.

Additional information

- Outdoor sport and recreational guides usually work on a seasonal basis.

Classified elsewhere

- *Program Leaders and Instructors in Recreation and Sport* (5254)
- *Tour and Travel Guides* (6441)

6443 Casino Occupations

Gambling casino workers operate gaming tables, maintain slot machines, accept keno wagers, pay out winning bets and jackpots and collect losing bets. They are employed by gambling casinos. Supervisors of gambling casino workers are included in this unit group.

Examples of titles classified in this unit group

croupier
gambling dealer, casino
keno runner, casino
keno writer
pit boss, gambling casino
shift manager, gambling casino
slot machine attendant, gambling casino
slot supervisor
supervisor, gaming tables

Main duties

Gambling casino workers perform some or all of the following duties:

- Operate gaming tables and games such as roulette, blackjack, keno, baccarat and poker
- Explain rules of games to patrons and ensure that rules are followed
- Accept keno wagers and issue computerized tickets for selection
- Determine winners or announce winning numbers
- Calculate and pay out winning bets and jackpots, collect losing bets and maintain related reports
- Fill slot machines with coins and assist patrons experiencing difficulties with machines
- Perform minor adjustments to slot machines.

Gambling casino supervisors perform some or all of the following duties:

- Supervise the activities of casino workers
- Co-ordinate and schedule activities of staff working at gaming tables and slot machines
- Train casino staff
- Resolve problems that arise, such as patrons' complaints and work-related issues.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided for gaming table dealers.
- Gambling casino supervisors usually require experience in all gambling activities.
- Security clearance is required for all gambling casino workers.
- Casino gaming licences are usually required for all casino employees.

Classified elsewhere

- Amusement ride, sports facility and bingo hall workers (in 6671 *Operators and Attendants in Amusement, Recreation and Sport*)
- Supervisors of attendants in recreation and sport (in 6216 *Other Service Supervisors*)

6451 Maîtres d'hôtel and Hosts/Hostesses

Maîtres d'hôtel and hosts/hostesses greet patrons and escort them to tables, and supervise and co-ordinate the activities of food and beverage servers. They are employed in restaurants, hotel dining rooms, private clubs, cocktail lounges and similar establishments.

Examples of titles classified in this unit group

host/hostess, food service
maître d'
maître d'hôtel
restaurant host/hostess

Main duties

Maîtres d'hôtel and hosts/hostesses perform some or all of the following duties:

- Receive and record patrons' reservations and assign tables
- Greet patrons at entrance of dining room, restaurant, or lounge and escort them to tables or other seating areas
- Speak with patrons to ensure satisfaction with food and service, and attend to complaints
- Order necessary dining room supplies and equipment
- Inspect dining and serving areas and equipment
- Supervise and co-ordinate activities of food and beverage servers and other serving staff
- Accept payment from patrons for food and beverage
- Maintain financial statements and records and ensure safe-keeping
- Prepare work schedules and payrolls
- Interview candidates for food and beverage server positions and train new employees
- May be responsible for marketing and advertising the dining establishment.

Employment requirements

- Completion of secondary school is usually required.
- Several weeks of on-the-job training are usually required.
- Maîtres d'hôtel require experience as a formal or captain waiter/waitress or other food service experience.

Classified elsewhere

- *Food and Beverage Servers* (6453)
- *Food Service Supervisors* (6212)

6452 Bartenders

Bartenders mix and serve alcoholic and non-alcoholic beverages. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and other licensed establishments. Supervisors of bartenders are included in this unit group

Examples of titles classified in this unit group

barkeeper
bartender
head bartender
service bartender

Main duties

Bartenders perform some or all of the following duties:

- Take beverage orders from serving staff or directly from patrons
- Mix liquor, soft drinks, water and other ingredients to prepare cocktails and other drinks
- Prepare mixed drinks, wine, draft or bottled beer and non-alcoholic beverages for food and beverage servers or serve directly to patrons
- Collect payment for beverages and record sales
- Maintain inventory and control of bar stock and order supplies
- Clean bar area and wash glassware
- Ensure compliance with provincial/territorial liquor legislation and regulations
- May train and supervise other bartenders and bar staff
- May hire and dismiss staff

Employment requirements

- Completion of secondary school may be required.
- Completion of college or other program in bartending

  or

  Completion of courses in mixing drinks is usually required.
- Responsible beverage service certification may be required.

Additional information

- Progression to managerial positions in food and beverage service is possible with experience.

Classified elsewhere

- *Food and Beverage Servers* (6453)

6453 Food and Beverage Servers

Food and beverage servers take patrons' food and beverage orders and serve orders to patrons. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and similar establishments.

Examples of titles classified in this unit group

banquet server
captain waiter/waitress
chief wine steward
cocktail waiter/waitress
food and beverage server
formal service waiter/waitress
waiter/waitress
wine steward

Main duties

Food and beverage servers perform some or all of the following duties:

- Greet patrons, present menus, make recommendations and answer questions regarding food and beverages
- Take orders and relay to kitchen and bar staff
- Recommend wines that complement patrons' meals
- Serve food and beverages
- Prepare and serve specialty foods at patrons' tables
- Present bill to patrons and accept payment
- Order and maintain inventory of wines and wine glassware
- Perform sensory evaluation of wines.

Employment requirements

- Completion of secondary school may be required.
- Formal waiters/waitresses may require completion of a one or two-year apprenticeship program
  or
  College or vocational school courses.
- Apprenticeship training programs for food and beverage servers are available in Saskatchewan and British Columbia. Trade certification is available but voluntary is those provinces.
- On-the-job training is usually provided.
- Wine stewards may require courses in wine selection and service
  or
  Experience as a captain waiter/waitress or formal waiter/waitress.

Classified elsewhere

- *Maître d'hôtel and Hosts/Hostesses* (6451)
- *Restaurant and Food Service Managers* (0631)

6461 Sheriffs and Bailiffs

Sheriffs execute and enforce court orders, warrants and writs, participate in seizure and sale of property and perform courtroom and other related duties. Bailiffs serve legal orders and documents, seize or repossess properties, evict tenants and perform other related activities. Sheriffs and bailiffs are employed by provincial or territorial courts, and bailiffs may be employed as officers of the court or in private service as agents for creditors.

Examples of titles classified in this unit group

bailiff
deputy sheriff
sheriff
sheriff's bailiff
sheriff's officer

Main duties

Sheriffs and bailiffs perform some or all of the following duties:

- Serve statements of claims, summonses, warrants, jury summonses, orders to pay alimony, and other court orders
- Serve writs of execution by seizing and selling property and distributing the proceeds according to court decisions
- Locate property and make seizures and removals under various acts of Parliament
- Provide courthouse security for judges and perimeter security for the courthouse
- Escort prisoners to and from courts and correctional institutions
- Prepare comprehensive reports and affidavits and maintain records
- Attend court, escort witnesses and assist in maintaining order
- Provide security support for sequestered juries
- Issue warrants for imprisonment, arrest or apprehension.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma in legal studies may be required.
- Sheriffs require experience as a deputy sheriff or bailiff and/or in custodial/escort or security work.
- Bailiffs usually require some work experience related to law enforcement as well as knowledge of relevant statutes and laws.
- Membership in the provincial regulatory body is mandatory in Quebec.

Additional information

- Progression to supervisory positions is possible with additional experience and in-house training.

Classified elsewhere

- *Correctional Service Officers* (6462)
- *Court Clerks* (1443)
- *Police Officers (Except Commissioned)* (6261)

6462 Correctional Service Officers

Correctional service officers guard prisoners and detainees and maintain order in correctional institutions and other places of detention. They are employed by federal, provincial and municipal governments.

Examples of titles classified in this unit group

correctional facility guard
correctional service officer
detention attendant
prison guard
supervisor, correctional officers

Main duties

Correctional service officers perform some or all of the following duties:

- Observe conduct and behaviour of prisoners to prevent disturbances and escapes
- Supervise prisoners during work assignments, meals and recreation periods
- Patrol assigned area and report any problems to supervisor
- Observe behaviour of prisoners and prepare reports
- Escort prisoners in transit and during temporary leaves
- Prepare admission, program, release, transfer and other reports
- May supervise and co-ordinate work of other correctional service officers.

Employment requirements

- Completion of secondary school is required.
- Correctional officer recruits must successfully complete the Corrections Canada training course to be employed by federal institutions.
- Correctional officer recruits are usually required to complete a basic training course to be employed by provincial/territorial institutions.
- Correctional service supervisors require experience as a correctional service officer.

Classified elsewhere

- Detention home workers (in 4212 *Community and Social Service Workers*)
- *Managers in Social, Community and Correctional Services* (0314)
- *Social Workers* (4152)

6463 By-law Enforcement and Other Regulatory Officers, n.e.c

Officers and inspectors in this unit group enforce by-laws and regulations of provincial and municipal governments. They are employed by provincial and municipal governments and agencies.

Examples of titles classified in this unit group

animal control officer
by-law enforcement officer
commercial transport inspector
garbage collection inspector
liquor licence inspector
parking control officer
property standards inspector
taxi inspector
zoning inspector

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Animal control officers respond to citizen complaints concerning stray domestic animals, livestock and wildlife; issue warnings and citations to owners; and impound lost, homeless and dangerous animals.
- By-law enforcement officers enforce municipal and provincial regulations, investigate complaints, and issue warnings and citations to commercial and residential property owners and occupants.
- Commercial transport inspectors inspect commercial vehicles to ensure compliance with regulations governing load restrictions, the transportation of hazardous materials and public safety.
- Garbage collection inspectors investigate complaints concerning infractions of garbage collection by-laws.
- Liquor licence inspectors conduct inspections of licensed establishments, advise licencees on laws and regulations, and report contravention of laws and regulations to provincial liquor control boards and agencies.
- Parking control officers enforce parking by-laws on city streets, regional roads and municipal properties.
- Taxi inspectors inspect taxicabs for mechanical reliability, cleanliness, licensing and meter accuracy; investigate public complaints, issue citations and prepare reports; and give evidence to city councils, taxi commissions and in court.
- Zoning inspectors investigate properties in violation of zoning and related by-laws, after receiving requests for licence clearances pertaining to zoning and related by-laws, and on receipt of building permit applications.

By-law enforcement officers may specialize in the enforcement of one specific by-law.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program or courses in law and security or other related field
  or
  Experience in a related administrative or regulatory occupation is usually required.
- Zoning inspectors or zoning enforcement officers may require a college diploma as a civil engineering or architectural technologist or technician and several years of experience in enforcement and/or building construction or a related field.
- On-the-job training is provided.

Classified elsewhere

- *Engineering Inspectors and Regulatory Officers* (2262)
- *Immigration, Employment Insurance and Revenue Officers* (1228)
- *Inspectors in Public and Environmental Health and Occupational Health and Safety* (2263)
- *Other Protective Service Occupations* (6465)
- *Police Officers (Except Commissioned)* (6261)
- *Sheriffs and Bailiffs* (6461)

6464 Occupations Unique to the Armed Forces

This unit group includes personnel in occupations unique to the armed forces, such as artillery soldiers, infantry soldiers, air defence technicians and naval electronics technicians who provide collective defence measures to protect Canadian waters, land, airspace and other interests. They are employed by the Canadian armed forces.

Examples of titles classified in this unit group

air defence technician
armoured vehicle crewmember
artillery soldier
field engineer
infantry soldier
naval weapons technician
sonar operator
tank driver
weapons operator

Main duties

Personnel in occupations unique to the armed forces perform some or all of the following duties:

- Operate armoured vehicles, artillery, hand-held weapons and other military combat equipment and defence systems
- Engage in peacekeeping operations and enforce cease-fire agreements
- Provide aid in emergency situations, such as civil disorder, natural disasters and major accidents
- Engage in drills and other training in preparation for peacekeeping, combat and natural disaster relief duties
- Perform administrative and guard duties.

Personnel in this unit group are assigned to specific operations related to reconnaissance, peacekeeping, disaster relief and combat.

Employment requirements

- Completion of secondary school is usually required.
- Three months of basic military training are provided.
- Specialized training in the operation and maintenance of military equipment and systems is provided.

Additional information

- Progression to commissioned officer occupations is possible with additional training and experience.
- Data provided by Statistics Canada for *Occupations Unique to the Armed Forces* (6464) includes all non-commissioned armed forces personnel. For further information, see Introduction to the NOC.

Classified elsewhere

- *Commissioned Officers, Armed Forces* (0643)

Occupations in the armed forces for which there are civilian counterparts are classified with those occupations. For example:

- Military police officers (in 6261 *Police Officers (Except Commissioned)*)
- Musicians – military (in 5133 *Musicians and Singers*)
- Vehicle technicians – military (in 7321 *Automotive Services Technicians, Truck Mechanics and Mechanical Repairers*)

6465 Other Protective Service Occupations

This unit group includes workers who conduct private investigations for clients or employers, implement security measures to protect property against theft and fire and provide other protective services not elsewhere classified. They are employed by security and investigation service companies, hotels, retail establishments, businesses and industry, or they may be self-employed.

Examples of titles classified in this unit group

alarm investigator
corporate security officer
house detective
postal inspection officer
private investigator
retail loss prevention officer
security officer, private
store detective

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Corporate security officers investigate unlawful acts of employees or patrons of establishments and recommend security systems such as electronic detection devices and access devices.
- Private investigators conduct investigations to locate missing persons and obtain information for use in civil and criminal litigation matters or for other purposes; they may also conduct polygraph tests (integrity surveys) for clients.
- Retail loss prevention officers prevent and detect shoplifting and theft in retail establishments.

Employment requirements

- Completion of secondary school is required.
- A college diploma in law and security may be required.
- On-the-job training may be provided.
- Experience as a police officer may be required for corporate security officers.
- Provincial licensure is required for private investigators.

Classified elsewhere

- *Police Officers (Except Commissioned)* (6261)
- *Security Guards and Related Occupations* (6651)
- Systems Security Analyst (in 2171 *Information System Analysts and Consultants*)

6471 Visiting Homemakers, Housekeepers and Related Occupations

Visiting homemakers provide ongoing or short-term home support services for individuals and families during periods of incapacitation, convalescence or family disruption. They are employed by government, non-profit and home care agencies, or are self-employed. Housekeepers perform housekeeping and other home management duties in private households, embassies and other residential establishments. Companions provide elderly and convalescent clients with companionship and personal care in residential or institutional settings. They are employed by home care agencies or may be self-employed. Foster parents care for children or family members in their homes under the direction of a foster parent agency.

Examples of titles classified in this unit group

companion
foster parent
home support worker
housekeeper
personal aide
personal care attendant
visiting homemaker

Main duties

Visiting homemakers perform some or all of the following duties:

- Care for individuals and families during periods of incapacitation, convalescence or family disruption
- Administer bedside and personal care to clients such as aid in ambulation, bathing, personal hygiene, and dressing and undressing
- Plan and prepare meals and special diets, and feed or assist in feeding clients
- Demonstrate infant care to new parents
- May perform routine health-related duties such as change non-sterile dressings, administer medications and collect specimens under the general direction of home care agency supervisor or nurse
- May perform routine housekeeping duties such as laundry, washing dishes and making beds.

Housekeepers perform some or all of the following duties:

- Perform housekeeping and other home management duties under general direction of employer
- Plan and prepare meals independently or with employer, and may serve meals
- May care for children.

Companions perform some or all of the following duties:

- Provide elderly and convalescent clients with companionship and personal care in client's home under general direction of home care agency supervisor or family members
- Aid clients with ambulation, bathing and other aspects of personal hygiene.

Foster parents perform some or all of the following duties:

- Care for foster children, usually on an emergency or temporary basis, as family members under general direction of foster parent agency
- Consult foster parent agency supervisors for advice and when problems arise
- Administer therapeutic programs for foster children, as directed by foster agency social workers.

Employment requirements

- Some secondary school education is usually required.
- Child-care or home management experience may be required.
- Visiting homemakers may require college or other courses in home support.
- First-aid certification may be required.

Additional information

- There is mobility among the occupations in this group.
- Visiting homemakers may require college or other courses in home support.
- First-aid certification may be required.

6471 Visiting Homemakers, Housekeepers and Related Occupations

Classified elsewhere

- *Babysitters, Nannies and Parents' Helpers* (6474)
- Housekeepers who are house cleaners (in 6661 *Light Duty Cleaners*)

6472 Elementary and Secondary School Teacher Assistants

This unit group includes workers who assist elementary and secondary school teachers and counsellors. They are employed in public and private elementary and secondary schools, special schools and treatment centres.

Examples of titles classified in this unit group

educational assistant
educational resources assistant
lunch room supervisor
program assistant, education
secondary school teacher's assistant
special education assistant
staff assistant, education
teacher's aide
teacher's assistant

Main duties

Elementary and secondary school teacher assistants perform some or all of the following duties:

- Assist students with lessons under direct supervision of classroom teacher
- Monitor and report to classroom teacher on student progress
- Assist in preparation of learning materials and environment
- Accompany and supervise students during activities in school gymnasiums, laboratories, libraries, resource centres and on field trips
- Assist special needs students, such as those with mental or physical disabilities, with mobility, communication and personal hygiene
- Prepare classroom displays and bulletin boards
- Operate or assist teacher in operation of projectors, tape recorders and other audio-visual equipment and office equipment such as photocopier, fax machine and computer
- Carry out behaviour modification, personal development and other therapeutic programs under supervision of professionals such as special education instructors, psychologists or speech-language pathologists
- Work with special needs students using techniques such as sign language, Bliss symbols or Braille
- Monitor students during recess or noon hour
- May assist with marking of tests and worksheets
- Assist with classroom inventory
- Assist in school library or office and perform other duties assigned by school principal.

Employment requirements

- Completion of secondary school is usually required.
- College courses in child care or related fields may be required for some positions.
- Teacher assistants who aid students with special needs may require specialized training and experience.

Additional information

- Mobility to other occupations related to child and adolescent care is possible with experience.

Classified elsewhere

- *Early Childhood Educators and Assistants* (4214)
- *Elementary School and Kindergarten Teachers* (4142)
- *Post-Secondary Teaching and Research Assistants* (4122)

6474 Babysitters, Nannies and Parents' Helpers

Babysitters care for children on an ongoing or short-term basis at home or in the children's homes. They are usually self-employed or may be employed by babysitting agencies. Nannies care for children in the employer's residence and provide for their health and physical and social development. Parent's helpers assist parent with child-care and household duties. Nannies and parent's helpers are employed by private households, where they may also reside.

Examples of titles classified in this unit group

babysitter
child caregiver – private home
child-care provider – private home
live-in caregiver
nanny
parent's helper

Main duties

Babysitters perform some or all of the following duties:

- Supervise and care for children in the absence of regular caregiver
- Bathe, dress and feed infants and children
- Prepare formulas and change diapers for infants
- Organize activities such as games and outings to provide amusement and exercise
- May perform housekeeping duties and prepare meals for children according to employer's instructions.

Nannies and live-in caregivers perform some or all of the following duties:

- Supervise and care for children in employer's residence and may reside in employer's home
- Bathe, dress and feed infants and children
- Prepare formulas and change diapers for infants
- Oversee children's activities, such as meals and rest periods, as instructed by employer
- Instruct children in personal hygiene and social development
- Tend to the emotional well-being of children
- Discipline children according to the methods requested by the parents
- Organize activities such as games and outings to provide amusement and exercise
- Plan, prepare and serve meals for children and may perform other housekeeping duties
- Take children to and from school and to appointments
- Maintain a healthy environment in the home
- May be required to keep records of daily activities and health information regarding each child.

Parent's helpers perform some or all of the following duties:

- Assist parent in child supervision and household management
- Bathe, dress and feed infants and children under direction of parent
- Assist with, or may be responsible for, meal preparation, laundry, washing dishes, running errands and other routine housekeeping duties.

Employment requirements

- Completion of secondary school may be required.
- Nannies and live-in caregivers may require completion of a training program in child care or a related field.
- Child-care or household management experience may be required.
- Demonstrated ability to perform work is usually required.
- First-aid certification and CPR training may be required.

Additional information

- There is mobility among occupations in this group.

Classified elsewhere

- Companions and foster parents (in 6471 *Visiting Homemakers, Housekeepers and Related Occupations*)
- Day-care workers (in 4214 *Early Childhood Educators and Assistants*)

6481 Image, Social and Other Personal Consultants

Image, social and other personal consultants advise clients on their personal appearance, speaking style, manner or other behaviours in order to improve personal or business images. They are employed by beauty salons, fashion boutiques, modelling schools, image consulting companies, or they may be self-employed.

Examples of titles classified in this unit group

colour consultant, fashion
etiquette consultant
fashion and wardrobe consultant
image consultant
public speaking consultant
wardrobe consultant
wedding consultant
weight loss consultant

Main duties

The following is a summary of the main duties of some occupations in this unit group:

- Image consultants advise clients on hair colour, hairstyles, make-up, clothing and accessories; may advise on posture, general appearance and manner, and provide courses and seminars on business and social etiquette.
- Make-up consultants advise clients on type, colour and application of make-up.
- Colour consultants advise clients on choice of colours for clothing that will complement their appearance.
- Wedding consultants advise clients on the selection of wedding gowns, floral arrangements, banquet facilities, wedding invitations and other items related to weddings.
- Weight loss consultants administer commercial weight loss programs, advise clients on diet and exercise and provide related support services.

Employment requirements

- Completion of secondary school is usually required.
- Specialized training courses are available for colour consultants, make-up and skin care consultants, weight loss consultants and most other occupations in this unit group.
- Experience and expertise in fashion, art, modelling or related fields is usually required.

Classified elsewhere

- Cosmeticians and manicurists (in 6482 *Estheticians, Electrologists and Related Occupations*)
- *Hairstylists and Barbers* (6271)
- Modelling school instructors (in 4216 *Other Instructors*)

6482 Estheticians, Electrologists and Related Occupations

Workers in this unit group provide facial and body treatments designed to enhance an individual's physical appearance. They are employed in beauty salons, electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and in cosmetic departments of retail establishments such as pharmacies and department stores, or they may be self-employed.

Examples of titles classified in this unit group

beauty treatment operator
cosmetician
electrologist
electrolysis technician
esthetician
manicurist
pedicurist
scalp treatment specialist
tattoo artist

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Estheticians give facial and other body treatments using specialized products and techniques.
- Cosmeticians advise customers on the use of make-up and other beauty products and apply make-up to customers; may specialize in applying makeup to models or other individuals for special occasions.
- Electrologists remove unwanted hair permanently from client's face or body using needle only specialized electrical hair removal equipment, laser and other equipment.
- Manicurists and pedicurists clean, shape and polish fingernails and toenails and provide related treatments.
- Scalp treatment specialists apply medicated lotions to treat scalp conditions and hair loss.
- Tattoo artists apply permanent designs to customer's skin, using electric needles and chemical dyes; may also apply temporary designs to customer's skin.
- Hair replacement technicians (non-medical) prepare and apply custom-made hair pieces to customer's scalp, weave customer's hair to hair pieces and provide scalp treatments.

Employment requirements

- Completion of high school, college or beauty school programs for cosmeticians, estheticians, electrologists, manicurists and pedicurists is required
  or
  On-the-job training is provided.
- Electrologists usually require certification from an electrologist's educational or training institution.
- Membership in a provincial or national electrolysis association may be required.
- Completion of a registered dermal therapy program may be required to provide electrology laser and vascular treatments.
- Estheticians usually require certification from an esthetician's educational or training institution.
- Apprenticeship for electrologists, estheticians and nail technicians is available in Manitoba. Trade certification for these occupations is compulsory in that province.
- A business license is required for workers in this group who are owners/operators of businesses offering these services.
- Practitioners offering these personal services are required to adhere to infection control procedures.

Additional information

- There is little or no mobility among the different occupations in this unit group without additional specialized training.

6482 Estheticians, Electrologists and Related Occupations

Classified elsewhere

- *Hairstylists and Barbers* (6271)
- *Image, Social and Other Personal Consultants* (6481)
- Make-up artists (in 5226 *Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts*)

6483 Pet Groomers and Animal Care Workers

Animal care workers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians and animal breeders. Pet groomers clip coats, bathe and otherwise groom pets. Workers in this group are employed by animal hospitals and clinics, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, dog training schools, pet grooming establishments, or may be self-employed.

Examples of titles classified in this unit group

animal care worker (except farm)
dog groomer
dog trainer
kennel attendant
laboratory animal attendant
pet groomer
pound attendant
veterinary attendant
zoo attendant

Main duties

Workers in this group perform some or all of the following duties:

- Prepare food and feed animals, fish or birds at scheduled intervals
- Clean and disinfect cages, pens and surrounding areas
- Shampoo, clip and groom animals
- Assist veterinarians and animal health technologists and technicians to inoculate and treat animals
- Assist animal breeders to handle and nurture animals
- Assist scientists and researchers in conducting laboratory tests with animals
- Monitor and document animal behaviour
- Train dogs to obey commands and perform specific duties in response to signals.

Employment requirements

- Completion of secondary school is usually required.
- Depending on the type of work performed, training courses in animal handling, grooming or dog training are usually required. Animal health or veterinary assistant college courses may be required for animal care workers.

Additional information

- Progression to animal health technology occupations is possible with additional training.

Classified elsewhere

- Animal nutritionists (in 2121 *Biologists and Related Scientists*)
- Horse trainers (in 8253 *Farm Supervisors and Specialized Livestock Workers*)
- Horseshoers (in 7383 *Other Trades and Related Occupations*)
- Marine mammal trainers (in 2121 *Biologists and Related Scientists*)
- Sheep shearers (in 8431 *General Farm Workers*)
- Veterinary and Animal Health Technologists and Technicians (3213)

6484 Other Personal Service Occupations

This unit group includes occupations, not elsewhere classified, that provide psychic consulting, fortune telling, astrological services and other personal services. They are employed by call centres and personal service establishments, or are self-employed.

Examples of titles classified in this unit group

astrologer
dating service consultant
chat line agent
fortune teller
psychic consultant
psychic reader

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Astrologers chart and interpret stellar and planetary positions on a horoscope to predict future events and trends for a client or the general public.
- Psychic consultants and related advisors provide personal advice to clients based on various schools of thought.
- Other service providers included in this group offer a wide variety of personal services not elsewhere classified.

Employment requirements

- A period of training under the guidance of a practitioner is usually required.

6611 Cashiers

Cashiers operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions. They are employed in stores, restaurants, theatres, business offices and other retail and wholesale establishments.

Examples of titles classified in this unit group

box office cashier
cafeteria cashier
grocery store cashier
office cashier
race track cashier
self-service gas bar cashier
theatre cashier

Main duties

Cashiers perform some or all of the following duties:

- Establish or identify price of goods, services or admission and tabulate bill using electronic or other cash register, optical price scanner or other equipment
- Receive payment by cash, cheque, credit card or automatic debit
- Wrap or place merchandise in bags
- Provide information to customers
- Calculate total payments received at the end of work shift and reconcile with total sales
- May accept reservations and take-out orders
- May also stock shelves and clean check-out counter area.

Employment requirements

- Some secondary school education is usually required.
- Eligibility for bonding may be required.
- A casino gaming licence may be required for cashiers working in gambling casinos.

Additional information

- Cashiers may progress to supervisory positions, such as head cashier, with additional training or experience.

Classified elsewhere

- Head cashiers (in 6211 *Retail Trade Supervisors*)
- *Retail Salespersons and Sales Clerks* (6421)
- *Service Station Attendants* (6621)
- *Tellers – Financial Services* (1433)

6621 Service Station Attendants

Service station attendants employed in automotive service stations sell fuel and other automotive products and perform such services as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles. Those employed in marinas sell fuel, rent boats and related equipment, and maintain marina facilities.

Examples of titles classified in this unit group

gas station attendant (except self-serve)
marina attendant
service station attendant

Main duties

Automotive service station attendants perform some or all of the following duties:

- Refuel vehicles
- Perform minor service and maintenance such as washing the windshield, checking fluid levels and air pressure, and replacing parts such as tires, light bulbs and windshield-wiper blades-Receive payment from customers
- Perform minor property maintenance duties such as sweeping service station lot, trimming shrubs, scrubbing service bays and painting curbs
- May pick up and deliver customers' cars for service station automotive repair department.

Marina service station attendants perform some or all of the following duties:

- Refuel boats
- Pump boat's marine septic system
- Rent boats, life jackets and other equipment and record rental data
- Receive payment from customers
- Maintain dock area and marina facilities and assist in seasonal moving of ramps and docks.

Employment requirements

- Some secondary school education is usually required.
- Propane and natural gas pump attendants may require an operator's licence.

Classified elsewhere

- Auto technicians (in 7321 *Automotive Services Technicians, Truck Mechanics and Mechanical Repairers*)
- Self-serve gas bar cashiers (in 6611 *Cashiers*)
- Service station managers (in 0621 *Retail Trade Managers*)
- Service station supervisors (in 6211 *Retail Trade supervisors*)

6622 Grocery Clerks and Store Shelf Stockers

Grocery clerks and store shelf stockers pack customers' purchases, price items, stock shelves with merchandise and fill mail and telephone orders. They are employed in retail establishments, such as grocery, hardware and department stores, and in warehouses.

Examples of titles classified in this unit group

bag clerk
grocery clerk
grocery packer
order filler
price clerk – retail
produce clerk
shelf stocker – retail
supermarket clerk

Main duties

Grocery clerks and store shelf stockers perform some or all of the following duties:

- Bag, box or parcel purchases for customers or for shipment or delivery to customers
- Carry customer's purchases to parking lot and pack in vehicle
- Unpack products received by store and count, weigh or sort items
- Use barcode scanning equipment to record incoming stock, verify pricing and maintain computerized stock inventory
- Price items using stamp or stickers according to price list
- Attach protective devices to products to protect against shoplifting
- Stock shelves and display areas and keep stock clean and in order
- Fill mail orders from warehouse stock
- Obtain articles for customers from shelf or stockroom
- Direct customers to the location of articles sought
- May sweep aisles, dust display racks and perform other general cleaning duties
- May operate cash register and computer for electronic commerce transactions.

Employment requirements

- Some secondary school education is usually required.

Classified elsewhere

- *Cashiers* (6611)
- Comparison shopper (in 6623 *Other Elemental Sales Occupations*)
- Meat counter clerk (in 6421 *Retail Salespersons and Sales Clerks*)
- Stock handler (in 7452 *Material Handlers*)
- Supervisor, stock clerks (in 6211 *Retail Trade Supervisors*)

6623 Other Elemental Sales Occupations

This unit group includes workers who sell goods or services during home demonstrations or by telephone soliciting, retail exhibitions or street vending. They are employed by a wide range of retail and wholesale establishments, manufacturers, telemarketing companies and call centres, or they may be self-employed.

Examples of titles classified in this unit group

canvasser – retail
demonstrator – retail
direct distributor – retail
door-to-door salesperson
home demonstrator – retail
street vendor
telemarketer
telephone solicitor

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Direct distributors contact potential customers by phone or through personal contacts, and demonstrate and sell products directly to individual customers or at sales parties.
- Door-to-door salespersons solicit sales and sell merchandise to residents of private homes.
- Street vendors set up and display merchandise on sidewalks or at public events to sell to the public.
- Telephone solicitors and telemarketers contact businesses or private individuals, by telephone, to solicit sales for goods or services.
- Demonstrators show, describe and sell goods or services at wholesale, retail and industrial establishments, and at exhibitions, trade shows and private homes.

Employment requirements

- Some secondary school education is usually required. High school graduation may be required by some employers.
- Self-employed street vendors and door-to-door salespersons may require a municipal merchant's permit.

Additional information

- Progression to related supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Cashiers* (6611)
- Kiosk sales clerks (in 6421 *Retail Salespersons and Sales Clerks*
- *Retail Trade Managers* (0621)
- *Retail Trade Supervisors* (6211)

6641 Food Counter Attendants, Kitchen Helpers and Related Occupations

Workers in this unit group include counter attendants, food preparers, kitchen helpers, food service helpers and dishwashers. Counter attendants and food preparers prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages. They are employed by restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other establishments.

Examples of titles classified in this unit group

bartender helper
bus boy/girl
cook's helper
counter attendant, cafeteria
dishwasher
fast-food preparer
food counter attendant
food preparer
food service helper
ice cream counter attendant
kitchen helper
salad bar attendant
sandwich maker

Main duties

Food service counter attendants and food preparers perform some or all of the following duties:

- Take customers' orders
- Clean, peel, slice and trim foodstuffs using manual and electric appliances
- Prepare food such as sandwiches, hamburgers, salads, milkshakes and ice cream dishes
- Portion and wrap food or place it directly on plates for service to patrons, and package take-out food
- Serve customers at counters or buffet tables
- Stock refrigerators and salad bars and keep records of the quantities of food used
- May receive payment for food items purchased.

Kitchen helpers perform some or all of the following duties:

- Wash and peel vegetables and fruit
- Wash work tables, cupboards and appliances
- Remove trash and clear kitchen garbage containers
- Unpack and store supplies in refrigerators, cupboards and other storage areas
- Sweep and mop floors, and perform other duties to assist cook and kitchen staff.

Food service helpers perform some or all of the following duties:

- Clear and clean tables and trays in eating establishments
- Bring clean dishes, flatware and other items to serving areas and set tables
- Replenish condiments and other supplies at tables and in serving areas
- Remove dishes before and after courses
- Perform other duties such as scraping and stacking dishes, carrying linen to and from laundry area and running errands.

Dishwashers perform some or all of the following duties:

- Wash dishes, glassware, flatware, pots and pans using dishwasher or by hand
- Place dishes in storage area
- Scour pots and pans, and may clean and polish silverware.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.

Additional information

- There is considerable mobility among jobs in this unit group.
- Movement into other occupations within food preparation and service, such as cook or waiter, is possible with further training and experience.

6641 Food Counter Attendants, Kitchen Helpers and Related Occupations

Classified elsewhere

- *Chefs* (6241)
- *Cooks* (6242)
- *Food and Beverage Servers* (6453)
- Street food vendors (in 6623 Other Elemental Sales Occupations)

6651 Security Guards and Related Occupations

This unit group includes security guards and other related workers who guard property against theft and vandalism, control access to establishments, maintain order and enforce regulations at public events and within establishments. They are employed by private security agencies, retail stores, industrial establishments, museums and other establishments.

Examples of titles classified in this unit group

airport security guard
armoured car guard
bodyguard
bouncer
commissionaire
crossing guard
gate attendant
night watchman/woman
preboarding security guard
security guard
security officer

Main duties

Workers in this unit group perform some or all of the following duties:

- Control access to establishments, issue passes and direct visitors to appropriate areas
- Patrol assigned areas, on foot or in vehicles, to guard against theft, shoplifting, vandalism and fire
- Enforce regulations of an establishment to maintain order
- Operate security control-room equipment to monitor establishment activities
- Perform security checks of passengers and luggage at airports
- Drive and guard armoured trucks and deliver cash and valuables to banks, automated teller machines and retail establishments
- Ensure that establishment safety and emergency procedures are followed, and respond to fire alarms, bomb threats and other emergencies.

Employment requirements

- Some secondary school education is usually required.
- Armoured car drivers require a driver's licence.
- Training is provided for airport security guards and establishment-specific training may be provided for other security occupations in this unit group.
- Security guards carrying firearms require a licence.

Classified elsewhere

- *Correctional Service Officers* (6462)
- Managers of security agencies (in 0123 *Other Business Services Managers*)
- Private investigators (in 6465 *Other Protective Service Occupations*)
- Supervisors of security guards and related occupations (in 6216 *Other Service Supervisors*)

6661 Light Duty Cleaners

Light duty cleaners clean the lobbies, hallways, offices and rooms of hotels, motels, resorts, hospitals, schools, office and other buildings, and private residences. They are employed by hotels, motels, resorts, recreational facilities, hospitals and other institutions, building management companies, cleaning service companies and private individuals.

Examples of titles classified in this unit group

cleaner
hospital cleaner
hotel cleaner
house cleaner
light duty cleaner
office cleaner
room attendant
sweeper

Main duties

Light duty cleaners perform some or all of the following duties:

- Sweep, mop, wash, wax and polish floors
- Dust furniture and vacuum carpeting and area rugs, draperies and upholstered furniture
- Make beds, change sheets, distribute clean towels and toiletries
- Clean, disinfect and polish kitchen and bathroom fixtures and appliances
- Disinfect operating rooms and other hospital areas
- Pick up debris and empty trash containers
- Wash windows, walls and ceilings.

Employment requirements

- There are no specific education requirements for occupations in this unit group.
- Certification for housekeeping room attendants or similar certification may be required by some employers.

Additional information

- Progression to supervisory cleaning positions is possible with additional training or experience.

Classified elsewhere

- *Cleaning Supervisors* (6215)
- *Janitors, Caretakers and Building Superintendents* (6663)
- *Specialized Cleaners* (6662)

6662 Specialized Cleaners

Specialized cleaners clean and refurbish building exteriors, carpets, chimneys, industrial equipment, ventilation systems, windows and other surfaces, using specialized equipment and techniques. They are employed by specialized cleaning services companies or may be self-employed.

Examples of titles classified in this unit group

auto detailer
building exterior cleaner
carpet cleaner
chimney cleaner
freight car cleaner
furnace cleaner
laboratory equipment cleaner
sandblaster
septic tank cleaner
upholstery cleaner
vehicle cleaner
ventilation system cleaner
window cleaner

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Carpet and upholstery cleaners operate cleaning machines to clean carpets, rugs and upholstered furniture on customers premises or in carpet and upholstery cleaning establishments.
- Chimney cleaners clean soot and creosote from chimneys and fireplaces using hand tools and industrial vacuum cleaners.
- Furnace and ventilation system cleaners clean ducts, vents and filters of furnaces in residences and commercial buildings using hand tools and industrial vacuum cleaners.
- Sandblasters clean building exteriors, tanks, chimneys and industrial equipment using sandblasting, pressurized steam or hydroblasting equipment.
- Vehicle cleaners clean the interior and exterior of automobiles, buses, streetcars, railway cars and subway cars.
- Window cleaners wash and clean interior and exterior windows and other glass surfaces in low-rise and high-rise buildings.

Employment requirements

- There are no specific education requirements for occupations in this unit group.
- On-the-job training is usually provided.
- Previous experience in a related position may be required for some occupations in this unit group.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Cleaning Supervisors* (6215)
- *Janitors, Caretakers and Building Superintendents* (6663)
- *Light Duty Cleaners* (6661)

6663 Janitors, Caretakers and Building Superintendents

Janitors, caretakers and building superintendents clean and maintain the interior and exterior of commercial, institutional and residential buildings and their surrounding grounds. Building superintendents employed in large establishments are responsible for the operation of the establishment and may also supervise other workers. They are employed by office and apartment building management companies, school boards, hospitals and other institutions, recreational and shopping facilities, and industrial and other establishments.

Examples of titles classified in this unit group

building caretaker
building superintendent
custodian
handyman/woman
heavy-duty cleaner
industrial cleaner
plant cleaner
school janitor

Main duties

Janitors, caretakers and building superintendents perform some or all of the following duties:

- Operate industrial vacuum cleaners to remove scraps, dirt, heavy debris and other refuse
- Wash windows, interior walls and ceilings
- Empty trash cans and other waste containers
- Sweep, mop, scrub and wax hallways, floors and stairs
- Clean snow and ice from walkways and parking areas
- Cut grass and tend grounds
- Clean and disinfect washrooms and fixtures
- Make adjustments and minor repairs to heating, cooling, ventilating, plumbing and electrical systems, and contact tradespersons for major repairs
- Perform other routine maintenance jobs and repair such as painting
- Ensure that security and safety measures are in place in the establishment
- May advertise vacancies, show apartments and offices to prospective tenants and collect rent
- May supervise other workers.

Employment requirements

- Completion of secondary school may be required.
- Some occupations in this unit group require previous cleaning and maintenance experience.
- A journeyman/woman certificate in one or more of the trades or a building operator certificate may be required for building superintendents.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

Classified elsewhere

- *Cleaning Supervisors* (6215)
- *Light Duty Cleaners* (6661)
- *Specialized Cleaners* (6662)

6671 Operators and Attendants in Amusement, Recreation and Sport

This unit group includes amusement occupations such as operators of amusement rides, games and other attractions, and attendants in amusement, recreation and sports facilities who assist patrons, collect tickets and fees and supervise the use of recreational and sports equipment. They are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs and other recreational and sports facilities.

Examples of titles classified in this unit group

amusement attraction operator
amusement park attendant
amusement ride operator
athletic equipment custodian
billiard parlour attendant
bingo hall attendant
bowling alley attendant
campground attendant
game concession operator
ice maker, rink
recreation attendant
recreation facility attendant
ski lift attendant
sports attendant
tennis court attendant

Main duties

Amusement attraction operators perform some or all of the following duties:

- Drive trucks, vans and other vehicles to transport amusement rides, games and other attractions to amusement attraction sites
- Set up rides, fun houses, game concessions and other amusement attractions
- Perform routine maintenance and safety inspections of attraction equipment
- Operate rides and other attractions, oversee game activities and ensure safety of participants
- Supervise amusement attraction attendants and may sell tickets.

Attendants in amusement, recreation and sport perform some or all of the following duties:

- Collect tickets and fees, and rent or sell sports and accessory equipment
- Schedule the use of recreational facilities such as golf courses, tennis courts, bowling alleys, fitness clubs and other similar facilities
- Operate recreational facility equipment such as ski lifts, ice rink equipment and snow making machines
- Assist patrons on and off ski lifts and amusement park rides, secure and release safety belts and bars and monitor equipment to detect wear and damage.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is usually provided.

Classified elsewhere

- *Casino Occupations* (6443)
- *Other Elemental Service Occupations* (6683)
- *Other Personal Service Occupations* (6484)
- *Program Leaders and Instructors in Recreation and Sport* (5254)
- Supervisors of operators and attendants in amusement, recreation and sport (in 6216 *Other Service Supervisors*)

6672 Other Attendants in Accommodation and Travel

This unit group includes workers who carry hotel guests' luggage and escort guests to their rooms, carry travellers' luggage at airports, in railway stations and aboard ships, and clean and maintain public areas and passengers' rooms aboard ships and trains. They are employed by airports, hotels, railway companies and water transport companies.

Examples of titles classified in this unit group

baggage porter
bellhop
doorkeeper, hotel
guest services attendant, hotel
luggage attendant
passenger attendant, cruise line
passenger attendant, ship
porter
redcap
train service attendant

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Guest service attendants carry luggage for hotel guests, escort incoming guests to their rooms, check rooms to ensure they are in order, offer information regarding features of rooms, services of hotel and points of interest, assist guests with special needs, attend to group arrivals and departures, receive and deliver items and messages for guests, handle guest complaints and requests, and maintain luggage storage areas.
- Baggage porters convey travellers' luggage at railway stations and airports by hand or hand truck and arrange for ground transportation.
- Ship attendants serve food and beverages, clean cabins, make beds, wash dishes and carry luggage for passengers aboard ships.
- Train service attendants set and clear tables in dining cars, clean sleeping cars, maintain washroom supplies and assist passengers as required.

Employment requirements

- Some secondary school education may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Air Transport Ramp Attendants* (7437)
- *Pursers and Flight Attendants* (6432)
- Supervisors of attendants in this unit group (in 6216 *Other Service Supervisors*)
- *Ticket Agents and Cargo Customer Service Representatives and Related Clerks (Except Airline)* (6434)
- *Tour and Travel Guides* (6441)

6681 Dry Cleaning and Laundry Occupations

Dry cleaning and laundry machine operators operate machines to dry-clean or launder garments and other articles. Dry cleaning and laundry inspectors and assemblers check finished garments and other articles to ensure that they meet required standards for dry-cleaning, laundering and pressing, and assemble and bag finished garments and other articles. They are employed in dry cleaning, laundry and fur cleaning establishments, and in the laundries of hotels, hospitals and other institutions.

Examples of titles classified in this unit group

assembler, laundry and dry cleaning
bagger, laundry and dry cleaning
cleaning machine operator
drapery cleaner
dry cleaner
dyer, laundry and dry cleaning
fur cleaner
inspector
laundry machine operator
laundry worker
leather cleaner
machine operator, laundry and dry cleaning
suede cleaner
spotter
sprayer, leather or suede

Main duties

Dry cleaning and laundry machine operators perform some or all of the following duties:

- Operate dry cleaning machines to dry-clean dresses, suits, coats, sweaters and other garments, draperies, cushion covers and other articles
- Operate washing machines and dryers to clean and dry garments, sheets, blankets, towels and other articles
- Operate machines to clean and blow-dry fur garments
- Operate machines to dry-clean, dye, spray, re-oil, and re-buff suede and leather garments.

Dry cleaning and laundry inspectors and assemblers perform some or all of the following duties:

- Check finished garments and other articles to ensure that they are properly dry-cleaned or laundered
- Record damaged or improperly dry-cleaned or laundered garments and other articles
- Use hand-held steam iron to touch up finished garments and other articles
- Assemble and bag finished garments and other articles
- Match invoices with tags on garments or other articles.

Employment requirements

- Some secondary school education is required.
- Four to eight weeks of on-the-job training are usually provided.
- Dry cleaning and laundry machine operators may require experience as inspectors or assemblers.
- Suede, leather and fur cleaners may require experience as dry cleaning or laundry machine operators.

Additional information

- Progression to supervisory dry cleaning and laundry occupations is possible with additional training and experience.

Classified elsewhere

- Alterers (in 7342 *Tailors, Dressmakers, Furriers and Milliners*)
- *Dry Cleaning and Laundry Supervisors* (6214)
- Dry cleaning service managers (in 0651 *Other Services Managers*)
- *Ironing, Pressing and Finishing Occupations* (6682)

6682 Ironing, Pressing and Finishing Occupations

This unit group includes workers who iron, press or otherwise finish garments and household articles. They are employed by dry cleaning, laundry and fur cleaning establishments, and by laundries in hotels, hospitals and similar establishments.

Examples of titles classified in this unit group

finisher
laundry finisher
pleats finisher
presser
silk finisher
steam finisher

Main duties

Workers in this unit group perform some or all of the following duties:

- Operate finishing equipment such as steam pressers, and use hand irons to finish pants, jackets, shirts, skirts and other dry cleaned and laundered articles
- Hand iron laundered fine lace or dry-cleaned silk garment
- Operate fur ironing and glazing equipment to finish fur garments and other fur articles
- Fold and bag dry cleaned and laundered articles
- May operate laundering equipment.

Workers in this group may specialize in finishing suede, leather, fur and delicate articles.

Employment requirements

- Some secondary school education is required.
- On-the-job training is provided.

Additional information

- Progression to supervisory dry cleaning and laundry positions is possible with additional training or experience.

Classified elsewhere

- *Dry Cleaning and Laundry Occupations* (6681)
- *Dry Cleaning and Laundry Supervisors* (6214)

6683 Other Elemental Service Occupations

This unit group includes elemental occupations, not elsewhere classified, primarily concerned with the provision of services. They are employed by a wide range of retail service and other establishments, and may be self-employed.

Examples of titles classified in this unit group

beauty salon attendant
car jockey
cloakroom attendant
door attendant
funeral home attendant
fur storage attendant
hotel valet
laundromat attendant
parking lot attendant
shoe shiner
tanning salon attendant
ticket taker
toll booth attendant
usher

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Beauty salon attendants shampoo, condition and dry customers' hair, assist hair stylists as directed and keep work areas clean.
- Door attendants assist persons entering or leaving hotels, theatres and similar establishments and may hail taxis and assist with luggage.
- Funeral home attendants drive hearses, arrange lights and floral displays, escort mourners, act as pallbearers and clean funeral parlours and chapels.
- Laundromat attendants replenish vending machines, provide change, explain operation of machines to customers, clean the laundromat and arrange for the repair of broken machines and may wash, dry and fold laundry for customers; may operate dry cleaning machines for customers.
- Parking lot attendants and car jockeys collect parking fees, issue ticket stubs, direct customers to parking spaces and park cars.
- Ticket takers and ushers collect admission tickets or passes from patrons at entertainment events and direct patrons to their seats.
- Other related elemental workers in this group perform services specific to the establishments in which their occupations are found.

Employment requirements

- There are no specific education requirements for occupations in this unit group.
- A valid driver's licence is required for some occupations in this unit group, such as funeral attendants and car jockeys.

Classified elsewhere

- *Operators and Attendants in Amusement, Recreation and Sports* (6671)

TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS

Major Group 72-73

TRADES AND SKILLED TRANSPORT AND EQUIPMENT OPERATORS

721 Contractors and Supervisors, Trades and Related Workers

7211 Supervisors, Machinists and Related Occupations
7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations
7213 Contractors and Supervisors, Pipefitting Trades
7214 Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades
7215 Contractors and Supervisors, Carpentry Trades
7216 Contractors and Supervisors, Mechanic Trades
7217 Contractors and Supervisors, Heavy Construction Equipment Crews
7218 Supervisors, Printing and Related Occupations
7219 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers

722 Supervisors, Railway and Motor Transportation Occupations

7221 Supervisors, Railway Transport Operations
7222 Supervisors, Motor Transport and Other Ground Transit Operators

723 Machinists and Related Occupations

7231 Machinists and Machining and Tooling Inspectors
7232 Tool and Die Makers

724 Electrical Trades and Telecommunication Occupations

7241 Electricians (Except Industrial and Power System)
7242 Industrial Electricians
7243 Power System Electricians
7244 Electrical Power Line and Cable Workers
7245 Telecommunications Line and Cable Workers
7246 Telecommunications Installation and Repair Workers
7247 Cable Television Service and Maintenance Technicians

725 Plumbers, Pipefitters and Gas Fitters

7251 Plumbers
7252 Steamfitters, Pipefitters and Sprinkler System Installers
7253 Gas Fitters

726 Metal Forming, Shaping and Erecting Trades

7261 Sheet Metal Workers
7262 Boilermakers
7263 Structural Metal and Platework Fabricators and Fitters
7264 Ironworkers
7265 Welders and Related Machine Operators
7266 Blacksmiths and Die Setters

727 Carpenters and Cabinetmakers

7271 Carpenters
7272 Cabinetmakers

728 Masonry and Plastering Trades

7281 Bricklayers
7282 Concrete Finishers
7283 Tilesetters
7284 Plasterers, Drywall Installers and Finishers and Lathers

729 Other Construction Trades

7291 Roofers and Shinglers
7292 Glaziers
7293 Insulators
7294 Painters and Decorators
7295 Floor Covering Installers

731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)

7311 Construction Millwrights and Industrial Mechanics (Except Textile)
7312 Heavy-Duty Equipment Mechanics
7313 Refrigeration and Air Conditioning Mechanics
7314 Railway Carmen/women
7315 Aircraft Mechanics and Aircraft Inspectors
7316 Machine Fitters
7317 Textile Machinery Mechanics and Repairers
7318 Elevator Constructors and Mechanics

732 Automotive Service Technicians

7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers
7322 Motor Vehicle Body Repairers

733 Other Mechanics

7331 Oil and Solid Fuel Heating Mechanics
7332 Electric Appliance Servicers and Repairers
7333 Electrical Mechanics
7334 Motorcycle and Other Related Mechanics
7335 Other Small Engine and Equipment Mechanics

734 Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations

7341 Upholsterers
7342 Tailors, Dressmakers, Furriers and Milliners
7343 Shoe Repairers and Shoemakers
7344 Jewellers, Watch Repairers and Related Occupations

735 Stationary Engineers and Power Station and System Operators

7351 Stationary Engineers and Auxiliary Equipment Operators
7352 Power Systems and Power Station Operators

736 Train Crew Operating Occupations

7361 Railway and Yard Locomotive Engineers
7362 Railway Conductors and Brakemen/women

737 Crane Operators, Drillers and Blasters

7371 Crane Operators
7372 Drillers and Blasters – Surface Mining, Quarrying and Construction
7373 Water Well Drillers

738 Printing Press Operators, Commercial Divers and Other Trades and Related Occupations, n.e.c.

7381 Printing Press Operators
7382 Commercial Divers
7383 Other Trades and Related Occupations

Major Group 74
INTERMEDIATE OCCUPATIONS IN TRANSPORT, EQUIPMENT OPERATION, INSTALLATION AND MAINTENANCE

741 Motor Vehicle and Transit Drivers

7411 Truck Drivers
7412 Bus Drivers and Subway and Other Transit Operators
7413 Taxi and Limousine Drivers and Chauffeurs
7414 Delivery and Courier Service Drivers

742 Heavy Equipment Operators

7421 Heavy Equipment Operators (Except Crane)
7422 Public Works Maintenance Equipment Operators

743 Other Transport Equipment Operators and Related Workers

7431 Railway Yard Workers
7432 Railway Track Maintenance Workers
7433 Deck Crew, Water Transport
7434 Engine Room Crew, Water Transport
7435 Lock and Cable Ferry Operators and Related Occupations
7436 Boat Operators
7437 Air Transport Ramp Attendants

744 Other Installers, Repairers and Servicers

7441 Residential and Commercial Installers and Servicers
7442 Waterworks and Gas Maintenance Workers
7443 Automotive Mechanical Installers and Servicers
7444 Pest Controllers and Fumigators
7445 Other Repairers and Servicers

745 Longshore Workers and Material Handlers

7451 Longshore Workers
7452 Material Handlers

Major Group 76
TRADES HELPERS, CONSTRUCTION LABOURERS AND RELATED OCCUPATIONS

761 Trades Helpers and Labourers

7611 Construction Trades Helpers and Labourers
7612 Other Trades Helpers and Labourers

762 Public Works and Other Labourers, n.e.c.

7621 Public Works and Maintenance Labourers
7622 Railway and Motor Transport Labourers

7211 Supervisors, Machinists and Related Occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers classified in the following unit groups: *Machinists and Machining and Tooling Inspectors* (7231), *Tool and Die Makers* (7232) and *Machining Tool Operators* (9511). They are employed by metal products manufacturing companies and machine shops.

Examples of titles classified in this unit group

foreman/woman, automotive machine shop
foreman/woman, machinists
foreman/woman, maintenance machine shop
foreman/woman, tool and die makers
supervisor, machine shop
supervisor, machinists
supervisor, metal mould and metal-patternmakers
supervisor, tool and die inspectors

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who machine metal into parts, products, tools and dies or moulds with precise dimensions
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hiring and promotions
- Ensure standards for safe working conditions are observed
- Prepare production and other reports
- May set up machines and equipment and write programs for computer numerically controlled (CNC) machine tools
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified machinist or tool and die maker are required.
- Trade certification in machining or tool and die making is required.

Classified elsewhere

- CAD-CAM and CMM programmers (in 2233 *Industrial Engineering and Manufacturing Technicians and Technologists*)
- *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades* (7214)

7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations

This unit group includes telecommunications and electrical trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: *Electricians* (7241), *Industrial Electricians* (7242), *Power System Electricians* (7243), *Electrical Power Line and Cable Workers* (7244), *Telecommunications Line and Cable Workers* (7245), *Telecommunications Installation and Repair Workers* (7246) and *Cable Television Service and Maintenance Technicians* (7247). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions.

Examples of titles classified in this unit group

electrical contractor
foreman/woman, cablevision technicians
foreman/woman, construction electricians
foreman/woman, industrial electricians
foreman/woman, power line and cable workers
foreman/woman, power system electricians
foreman/woman, telecommunications installation and repair workers
supervisor, cable maintenance and repair
supervisor, plant electricians
supervisor, residential electricians

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who install, repair and maintain electrical wiring, fixtures and control devices, power systems, telecommunication systems and cablevision systems
- Establish methods to meet work schedules and co-ordinate work activities with other subcontractors or departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare work progress reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is some mobility between jobs within a specific trade; however, there is little or no intertrade mobility.

7213 Contractors and Supervisors, Pipefitting Trades

This unit group includes plumbing and other pipefitting trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: *Plumbers* (7251), *Steamfitters, Pipefitters and Sprinkler System Installers* (7252) and *Gas Fitters* (7253). They are employed by construction companies, mechanical, plumbing and pipefitting trade contractors and maintenance departments of industrial, commercial and manufacturing establishments.

Examples of titles classified in this unit group

contractor, pipefitting
contractor, plumbing
foreman/woman, gas fitters
foreman/woman, pipefitters
foreman/woman, plumbers
foreman/woman, sprinkler system installers
foreman/woman, steamfitters
supervisor, gas fitters
supervisor, plumbers
supervisor, steamfitters

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who install, repair and maintain piping systems used for the transmission of steam, heat, water, oil and other liquids and gases in residential, commercial, industrial and other installations
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of own company
- May supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is little or no intertrade mobility among supervisors in this unit group.

7214 Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades

This unit group includes sheet metal, ironwork, welding and boilermaking trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: *Sheet Metal Workers* (7261), *Boilermakers* (7262), *Structural Metal and Platework Fabricators and Fitters* (7263), *Ironworkers* (7264), *Welders and Related Machine Operators* (7265) and *Blacksmiths and Die Setters* (7266). They are employed by structural, platework and related metal products fabrication, manufacturing and erecting companies.

Examples of titles classified in this unit group

contractor, ironwork
foreman/woman, blacksmiths
foreman/woman, boilermakers
foreman/woman, ironworkers
supervisor, boilermakers
supervisor, sheet metal workers
supervisor, structural metal fitters
supervisor, welders

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who shape, form and join metal parts or products to specified dimensions and erect light and heavy metal products and structures
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare production and other reports
- Set up machines and equipment
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of apprentices, machine operators, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is little or no intertrade mobility among the supervisors in this unit group.

Classified elsewhere

- *Supervisors, Other Mechanical and Metal Products Manufacturing* (9226)

7215 Contractors and Supervisors, Carpentry Trades

This unit group includes carpentry and cabinetmaking trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: *Carpenters* (7271) and *Cabinetmakers* (7272). They are employed by construction companies, carpentry contractors, maintenance departments of industrial establishments, and custom furniture and fixture manufacturing or repair companies.

Examples of titles classified in this unit group

cabinetmaking contractor
carpenter supervisor
carpentry contractor
foreman/woman, finish carpenters
foreman/woman, form builders
foreman/woman, framers
foreman/woman, maintenance carpenters
supervisor, carpenters

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of carpenters who construct, renovate and maintain structures of wood and other building materials and build and install interior finishing in residential, commercial and industrial buildings; and of cabinetmakers who construct and repair custom wooden cabinets, furniture, fixtures and related products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified carpenter or cabinetmaker are required.
- Journeyman/woman trade certification as a carpenter or cabinetmaker is usually required.

Additional information

- There is some mobility between jobs within a specific trade; however, there is little or no intertrade mobility.

Classified elsewhere

- *Construction Managers* (0711)
- *Residential Home Builders and Renovators* (0712)
- *Supervisors, Furniture and Fixtures Manufacturing* (9224)

7216 Contractors and Supervisors, Mechanic Trades

This unit group includes heating, refrigeration, air-conditioning, millwrighting and elevator installation trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in unit groups within the following minor groups: *Machinery and Transportation Equipment Mechanics* (*except Motor Vehicle*) (731), *Automotive Service Technicians* (732) and *Other Mechanics* (733). They are employed in a wide range of establishments; places of employment are indicated in the unit group descriptions.

Examples of titles classified in this unit group

contractor, heating systems
foreman/woman, air-conditioning and refrigeration mechanics
foreman/woman, aircraft mechanics and inspectors
foreman/woman, electrical mechanics
foreman/woman, heating systems mechanics
foreman/woman, heavy-duty equipment mechanics
foreman/woman, printing machine repairers
foreman/woman, railway car repairers
foreman/woman, railway equipment maintenance inspectors
foreman/woman, textile machine mechanics
supervisor, aircraft maintenance engineers (AME)
supervisor, appliance repair shop
supervisor, industrial mechanics
supervisor, motor vehicle repair shop
supervisor, small-engine repair shop

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who repair and maintain aircraft, railway locomotives and cars, industrial machinery and equipment, construction and other heavy equipment, textile equipment, printing machines, heating equipment and furnaces, transformers and other electrical equipment, motor vehicles, air-conditioning and refrigeration equipment, electric appliances and other equipment, such as motorcycles, outboard motors and snowmobiles
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hiring and promotions
- Ensure that standards for safe working conditions are observed
- Prepare production and other reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are usually required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is little or no intertrade job mobility among the supervisors classified in this unit group.

7217 Contractors and Supervisors, Heavy Construction Equipment Crews

This unit group includes excavating, grading, paving, drilling and blasting contractors who own and operate their own business. This unit group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: *Crane Operators* (7371), *Drillers and Blasters – Surface Mining, Quarrying and Construction* (7372), *Heavy Equipment Operators (Except Crane)* (7421), *Longshore Workers* (7451), *Material Handlers* (7452), *Public Works Maintenance Equipment Operators* (7422), *Railway Track Maintenance Workers* (7432) and *Water Well Drillers* (7373). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions.

Examples of titles classified in this unit group

excavating contractor
foreman/woman, demolition
foreman/woman, drilling and blasting – construction
foreman/woman, logging road construction
foreman/woman, railway gang
foreman/woman, railway track maintenance
paving contractor
pipeline construction supervisor
road maintenance foreman/woman
section foreman/woman, railway
supervisor, heavy equipment operators
supervisor, oilfield construction
supervisor, water well drilling
track foreman/woman – railway

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate cranes and construction, paving, drilling, railway maintenance and other similar heavy equipment
- Establish methods to meet work schedules and co-ordinate work activities with other project supervisors or managers
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience in the occupation supervised is required.
- Journeyman/woman trade certification in a relevant trade may be required.

Additional information

- There is some mobility between occupations classified in this unit group.

Classified elsewhere

- Supervisors of heavy equipment mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)
- Supervisors of logging machinery operators (in 8211 *Supervisors, Logging and Forestry*)

7218 Supervisors, Printing and Related Occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers who produce camera work and printing plates and cylinders; process film; print text and illustrations on paper, metal and other material; and bind and finish printed products. They are employed by companies that specialize in commercial printing or one of its components, such as binding or colour reproduction; in combined printing and publishing companies, such as newspapers and magazines; and in various establishments in both the public and private sectors that have in-house printing departments.

Examples of titles classified in this unit group

bindery foreman/woman – printing
bindery supervisor – printing
composing room supervisor – printing
film processing supervisor
finishing supervisor – printing
photographic and film processing foreman/woman
platemaking supervisor – printing
preparatory supervisor – printing
prepress supervisor – printing
pressroom supervisor – printing
printing supervisor

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule activities of workers who produce camera work and printing plates and cylinders; process film; and print, bind and finish books, newspapers, business forms and other printed products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Review and approve all job proofs or samples in order to ensure quality of work meets client specifications
- Requisition materials and supplies
- Resolve work problems, provide technical advice and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Prepare production and other reports
- May set up machines or equipment.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in graphic arts technology may be required.
- Several years of experience in the work area supervised is usually required.
- Provincial trade certification may be required for some occupations in this unit group.

Additional information

- Progression to management positions, such as department, production or plant manager, is possible with experience.

Classified elsewhere

- Printing plan managers (in 0911 *Manufacturing Managers*)
- Supervisors of desktop publishing operators (in 1211 *Supervisors, General Office and Administrative Support Clerks*)

7219 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers

This unit group includes roofing, masonry, painting and other construction trade contractors, not elsewhere classified, who own and operate their own business. Supervisors in this unit group supervise and co-ordinate the activities of various tradespersons, installers, repairers and servicers classified in the following minor groups: *Masonry and Plastering Trades* (728), *Other Construction Trades* (729) and *Other Installers, Repairers and Servicers* (744). They are employed by a wide range of establishments; places of employment are indicated in the unit group descriptions. This unit group also includes prefabricated product installation and service contractors and proprietors of some repair and service establishments.

Examples of titles classified in this unit group

bricklaying contractor
cement finishing contractor
foreman/woman, glaziers
foreman/woman, insulators
foreman/woman, plasterers
painting contractor
pest control supervisor
roofing contractor
supervisor, bicycle repair shop
supervisor, painters and decorators
supervisor, tilesetters

Main duties

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of construction workers engaged in bricklaying, roofing, cement finishing, tilesetting, plastering, drywall installation, glazing, insulating and painting, and workers who install and service prefabricated products in residential and commercial properties, as well as workers who repair a wide variety of products, such as musical instruments, sports equipment, vending machines, bicycles and cameras
- Establish methods to meet work schedules and co-ordinate work activities with other subcontractors
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare work progress reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience in the trade or in the work area supervised are usually required.
- Journeyman/woman trade certification may be required for some occupations in this unit group.

Additional information

- There is little or no mobility among supervisors in this unit group.

Classified elsewhere

- *Contractors and Supervisors, Carpentry Trades* (7215)
- *Contractors and Supervisors, Pipefitting Trades* (7213)
- Electrical contractors and supervisors of electricians (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)
- Ironwork contractors and supervisors of ironworkers (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)

7221 Supervisors, Railway Transport Operations

Supervisors in this unit group supervise and co-ordinate the activities of railway and yard locomotive engineers, railway yard workers and railway labourers. They are employed by railway transport companies.

Examples of titles classified in this unit group

railway transport operations supervisor
road foreman/woman, freight train
stationmaster
trainmaster
yard foreman/woman – railway
yardmaster – railway

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate trains, drive locomotives in railway yards and perform other duties related to railway operations
- Establish methods to meet work schedules and co-ordinate work activities with other units
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hiring and promotions
- Prepare work reports.

Employment requirements

- Completion of secondary school is usually required.
- Level "A" Certificate of the Canadian Rail Operating Rules is required.
- Certificate of the "Qualification Standards for Operating Crews" is required.
- Several years of railway operations experience are required.

Classified elsewhere

- Supervisor of railway car repairers (in 7216 *Contractors and Supervisors, Mechanic Trades*)
- Supervisors of railway track maintenance crews (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)

7222 Supervisors, Motor Transport and Other Ground Transit Operators

Supervisors in this unit group supervise and co-ordinate activities of truck drivers, bus drivers, delivery drivers, subway and other transit operators, chauffeurs and taxi and limousine drivers. This unit group also includes bus dispatchers who co-ordinate the activities of transit system bus drivers and subway traffic controllers who operate and monitor signal and track switch control panels. They are employed by motor transportation and ground transit companies and by urban transit systems.

Examples of titles classified in this unit group

bus inspector
dispatcher, bus
foreman/woman, truck drivers
foreman/woman, urban transit system
mobile inspector, transit
subway traffic controller
supervisor, light rail transit (LRT) operators
supervisor, school bus drivers
supervisor, subway operators

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate trucks, buses, subway trains, light rail transit, street cars, taxis and other transport vehicles
- Establish methods to meet work schedules and may co-ordinate work activities with other units
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Dispatch bus drivers and monitor routes to ensure schedules are met and to resolve operating problems
- Monitor and operate signal and track switch control panel of subway systems
- Prepare work reports and budgets, and monitor expenditures.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a driver or operator of motor transport or ground transit equipment are usually required.

Additional information

- There is little mobility between occupations in the different transportation sectors of this unit group.

Classified elsewhere

- *Supervisors, Railway Transport Operations* (7221)
- Train dispatchers (in 2275 *Railway Traffic Controllers and Marine Traffic Regulators*)
- Truck transport and taxi dispatchers (in 1475 *Dispatchers*)

7231 Machinists and Machining and Tooling Inspectors

Machinists set up and operate a variety of machine tools to cut or grind metal, plastic or other materials to make or modify parts or products with precise dimensions. Machining and tooling inspectors inspect machined parts and tooling in order to maintain quality control standards. They are employed by machinery, equipment, motor vehicle, automotive parts, aircraft and other metal products manufacturing companies and by machine shops.

Examples of titles classified in this unit group

automotive machinist
aviation machinist
general machinist
machine shop inspector
machined parts inspector
machining inspector
machinist
machinist apprentice
tooling inspector

Main duties

Machinists perform some or all of the following duties:

- Read and interpret engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed, and plan best sequence of operations
- Compute dimensions and tolerances and measure and lay out work pieces
- Set up, operate and maintain a variety of machine tools including computer numerically controlled (CNC) tools to perform precision, non-repetitive machining operations such as sawing, turning, milling, boring, planing, drilling, precision grinding and other operations
- Fit and assemble machined metal parts and subassemblies using hand and power tools
- Verify dimensions of products for accuracy and conformance to specifications using precision measuring instruments
- May set up and program machine tools for use by machining tool operators.

Machining and tooling inspectors perform some or all of the following duties:

- Verify dimensions of machined parts or tooling using micrometers, verniers, callipers, height gauges, optical comparators, co-ordinate measuring machines (CMM) or other specialized measuring instruments
- Maintain, repair and calibrate precision measuring instruments such as dial indicators, fixed gauges, height gauges and other measuring devices
- Report deviations from specifications and tolerances to supervisor
- Maintain inspection records and complete inspection reports.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some college or industry courses in machining is usually required to be eligible for trade certification.
- Trade certification for machinists is available, but voluntary, in all provinces and territories.
- Trade certification for automotive machinists is available, but voluntary, in Ontario.
- Trade certification for machinists (CNC) is available, but voluntary, in New Brunswick.
- Interprovincial trade certification (Red Seal) is also available to qualified machinists.
- Several years of experience as a machinist, tool and die maker or machining tool operator may be required for machining and tooling inspectors.

7231 Machinists and Machining and Tooling Inspectors

Additional information

- Familiarity with exotic and composite materials may be required for machinists in aviation and other advanced manufacturing sectors.
- Progression to supervisory positions is possible with experience.
- Red Seal certification allows for interprovincial mobility.

Classified elsewhere

- CAD-CAM programmers (in 2233 *Industrial Engineering and Manufacturing Technologists*)
- *Machining Tool Operators* (9511)
- *Supervisors, Machinists and Related Occupations* (7211)
- *Tool and Die Makers* (7232)

7232 Tool and Die Makers

Tool and die makers make, repair and modify custom-made, prototype or special tools, dies, jigs, fixtures and gauges using various metals, alloys and plastics which require precise dimensions. They are employed primarily in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops. This unit group also includes metal patternmakers and metal mould makers.

Examples of titles classified in this unit group

die finisher
die maker
jig maker
metal mould maker
metal patternmaker
metal patternmaker apprentice
mould maker – plastics processing
mould maker apprentice
tool and die maker
tool and die maker apprentice
tool maker

Main duties

Tool and die makers perform some or all of the following duties:

- Read and interpret engineering drawings and specifications of tools, dies, prototypes or models
- Prepare templates and sketches, and determine work processes
- Compute dimensions and tolerances and set up machine tools
- Position, secure, measure and work metal stock or castings to lay out for machining
- Set up, operate and maintain a variety of conventional and computer numerically controlled (CNC) machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape workpiece to prescribed dimensions and finish
- Verify machined parts for conformance to specifications using precision measuring instruments such as vernier callipers, micrometers, co-ordinate measuring machines (CMM) and electronic measuring devices
- Fit and assemble or disassemble parts using hand tools
- Test completed tools, dies, jigs or fixtures for proper operation
- May program CNC machine tools.

Metal patternmakers perform some or all of the following duties:

- Machine, fit and assemble castings and other parts to make precision models of required shape such as metal patterns, core boxes and match plates
- Lay out, shape and assemble patterns of metal, wood, plastic and other materials from blueprints, models or templates
- May program CNC machine tools.

Metal mould makers perform some or all of the following duties:

- Machine, fit and assemble parts to make metal moulds and cores for plastic injection moulding, or other production processes
- May program CNC machine tools.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- or five-year tool and die making apprenticeship program

  or

  A combination of over five years of work experience in the trade and some high school, college or industry courses in tool and die making is usually required to be eligible for tool and die trade certification.
- Tool and die making trade certification is available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Alberta and British Columbia
- Interprovincial trade certification (Red Seal) is also available to qualified tool and die makers.
- Mould makers usually require completion of a four-year apprenticeship or college program in mould making.
- Trade certification for mould makers is available, but voluntary, in Quebec and Ontario.

- Patternmakers usually require completion of an apprenticeship or college program in patternmaking.
- Patternmaking trade certification is available, but voluntary, in Ontario.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification of tool and die makers allows for interprovincial mobility.

Classified elsewhere

- *Machining Tool Operators* (9511)
- *Machinists and Machining and Tooling Inspectors* (7231)
- Manual and machine mould makers and core makers (in 9412 *Foundry Workers*)
- Supervisors of tool and die makers, metal mould makers and patternmakers (in 7211 *Supervisors, Machinists and Related Occupations*)

7241 Electricians (Except Industrial and Power System)

Electricians in this unit group lay out, assemble, install, test, troubleshoot and repair electrical wiring, fixtures, control devices and related equipment in buildings and other structures. They are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed.

Examples of titles classified in this unit group

apprentice electrician
construction electrician
construction electrician apprentice
domestic and rural electrician
electrician

Main duties

Electricians in this unit group perform some or all of the following duties:

- Read and interpret drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations
- Pull wire through conduits and through holes in walls and floors
- Install brackets and hangers to support electrical equipment
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system, following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to sound and visual communication equipment, signalling devices and heating and cooling systems
- Conduct preventive maintenance programs and keep maintenance records.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program is usually required.
- Trade certification for construction electricians is compulsory in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Saskatchewan, Alberta, British Columbia, the Northwest Territories and the Yukon and available, but voluntary, in Manitoba
- Trade certification for electricians (domestic and rural) is mandatory in Quebec and Ontario, and available, but voluntary in Newfoundland
- Interprovincial trade certification (Red Seal) is also available to qualified construction electricians.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Electrical Mechanics* (7333)
- *Industrial Electricians* (7242)
- *Power System Electricians* (7243)
- Supervisors of electricians (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)

7242 Industrial Electricians

Industrial electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

Examples of titles classified in this unit group

electrician, shipyard
industrial electrician
industrial electrician apprentice
marine electrician
mill electrician
mine electrician
plant electrician
plant maintenance electrician

Main duties

Industrial electricians perform some or all of the following duties:

- Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Install, examine, replace or repair electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components
- Test electrical and electronic equipment and components for continuity, current, voltage and resistance
- Maintain, repair, install and test switchgear, transformers, switchboard meters, regulators and reactors
- Maintain, repair, test and install electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices
- Conduct preventive maintenance programs and keep maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- or five-year industrial electrician apprenticeship program

  or

  A combination of over five years of work experience in the trade and some high school, college or industry courses in industrial electrical equipment is usually required to be eligible for trade certification.
- Trade certification for industrial electricians is compulsory in Prince Edward Island, Quebec and the Yukon, and available, but voluntary, in Newfoundland, Nova Scotia, New Brunswick, Ontario and Manitoba.
- Interprovincial trade certification (Red Seal) is also available to qualified industrial electricians.
- Trade certification for marine electricians is available, but voluntary, in New Brunswick.
- Trade certification for mine electricians is available, but voluntary, in Nova Scotia.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Construction electricians (in 7241 *Electricians (Except Industrial and Power System)*)
- *Power System Electricians* (7243)
- Supervisors of industrial electricians (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)

7243 Power System Electricians

Power system electricians install, maintain, test and repair electrical power generation, transmission and distribution system equipment and apparatus. They are employed by electric power generation, transmission and distribution companies.

Examples of titles classified in this unit group

apprentice power system electrician
power electrician
power station electrician
power system electrician

Main duties

Power system electricians perform some or all of the following duties:

- Install and maintain electrical power distribution equipment such as transformers, generators, voltage regulators, switches, circuit breakers, capacitors, inductors, and supervisory control and data acquisition (SCADA) systems
- Install and maintain electrical equipment and apparatus in generating stations or powerhouses
- Inspect and test installed electrical equipment and apparatus to locate electrical faults and check their operation, using volt meters, ammeters and other electrical test instruments and equipment
- Repair or replace faulty electrical equipment and apparatus
- Complete test and maintenance reports.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program for power system electricians
  or
  A combination of up to four years of work experience in the trade and some college or industry courses in electrical technology is usually required.
- Trade certification is available, but voluntary, in Manitoba, Alberta, the Northwest Territories and the Yukon.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Electrical Power Line and Cable Workers* (7244)
- *Electrical Mechanics* (7333)
- *Electricians (Except Industrial and Power System)* (7241)
- *Industrial Electricians* (7242)
- Supervisors of power system electricians (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)

7244 Electrical Power Line and Cable Workers

Electrical power line and cable workers construct, maintain and repair overhead and underground electrical power transmission and distribution systems. They are employed by electric power generation, transmission and distribution companies, electrical contractors and public utility commissions.

Examples of titles classified in this unit group

apprentice lineman/woman – electrical power system
cable installer – electrical power
cable splicer – electrical power
construction lineman/woman – electrical power line
power line patroller
power lineman/woman
powerline technician

Main duties

Electrical power line and cable workers perform some or all of the following duties:

- Install, maintain, troubleshoot and repair electrical distribution and transmission systems including overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers and other associated equipment
- Erect and maintain steel, wood or concrete poles, towers and guy wires
- Splice, solder and insulate conductors and related wiring to connect power distribution and transmission networks using splicing tools, related electrical equipment and tools
- Inspect and test overhead and underground power lines and cables and auxiliary equipment using electrical test equipment
- Climb ladders or operate hydraulic buckets when working aloft on poles and towers, or work in confined spaces such as trenches and tunnels to install power lines and cables and associated equipment
- Install and maintain street lighting systems
- Communicate with other workers to co-ordinate the preparation and completion of work assignments.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a provincial three- or four-year lineman/woman apprenticeship program
  or
  A combination of up to four years of work experience in the trade and some high school, college or industry courses in electrical technology is usually required for electrical power line and cable workers.
- Trade certification for powerline technicians is compulsory in Prince Edward Island and British Columbia, and available, but voluntary, in Newfoundland, Nova Scotia, New Brunswick, Ontario, Saskatchewan, Alberta, the Northwest Territories and the Yukon.
- Trade certification for construction linemen/women is available, but voluntary, in Newfoundland, New Brunswick and Ontario.
- Interprovincial trade certification (Red Seal) is available for qualified powerline technicians.

Additional information

- Red Seal certification allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

7244 Electrical Power Line and Cable Workers

Classified elsewhere

- Other linemen/women and cable installers (in 7245 *Telecommunications Line and Cable Workers*)
- *Power System Electricians* (7243)
- Supervisors of electrical power line and cable workers (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)

7245 Telecommunications Line and Cable Workers

Telecommunications line and cable workers install, repair and maintain telecommunication lines and cables. They are employed by cable television companies and by telephone and other telecommunications services.

Examples of titles classified in this unit group

apprentice lineman/woman – telecommunications
cable repairer, telecommunications
communication technician, construction
construction technician – cable television
lineman/woman, telecommunications
splicer technician, telephone
telecommunications line installer
telephone line technician

Main duties

Telecommunications line and cable workers perform some or all of the following duties:

- Install, remove, maintain and repair aerial and underground telephone and other telecommunication transmission and distribution lines, cables and associated hardware
- Install (but do not repair or maintain) cable television lines and cables
- Splice and repair various types and sizes of telephone and other telecommunication cables including single line, coaxial and fibre optic
- Inspect and test telecommunication transmission lines and cables for transmission characteristics and to locate faults
- Analyze and record test results
- Climb and work aloft on poles, ladders or other support structures or work in confined spaces such as trenches, tunnels and crawl spaces
- Communicate with other workers to co-ordinate the preparation and completion of work assignments
- Assist in the erection and removal of telecommunication poles, towers and associated support structures
- May operate excavation machinery and other heavy equipment.

Employment requirements

- Completion of secondary school is required.
- Completion of a four-year telecommunications line and cable apprenticeship program

  or

  A combination of over three years work experience in the trade and some industry-related or other specialized courses

  or

  Completion of a two-year college program in electronics is usually required.
- Trade certification for communications electrician (construction craft) is available, but voluntary, in Alberta, the Northwest Territories and the Yukon.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Cable Television Service and Maintenance Technicians* (7247)
- *Electrical Power Line and Cable Workers* (7244)
- Supervisors of telecommunications line and cable workers (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)
- *Telecommunication Installation and Repair Workers* (7246)

7246 Telecommunications Installation and Repair Workers

Telecommunications installation and repair workers install, test, maintain and repair telephones, telephone switching equipment and telecommunications equipment related to transmission and processing of voice, video signals and other data over a variety of media including fibre optics, microwave, radio and satellite. They are employed by telephone and other telecommunications transmission services establishments.

Examples of titles classified in this unit group

apprentice communication electrician – switching
cellular telephone technician
central office technician
communication technician, telephone
exchange tester – telecommunications
line and station installer, telephone
mobile radio installer
private branch exchange (PBX) installer
switch network installer and repairer
telecommunications equipment technician
telephone installer

Main duties

Telephone installers and repairers perform some or all of the following duties:

- Install, arrange, remove and maintain telephone equipment, wiring and associated hardware
- Test installed telephone systems to locate transmission faults
- Repair or replace defective and damaged telephones, wire and associated equipment.

Switch network installers and repairers perform some or all of the following duties:

- Install electromechanical, analog and digital trunking systems, circuits and equipment in telecommunications central offices and switching centres
- Inspect and test trunking systems, circuits and equipment
- Analyze test results and adjust, change or repair switching system, network, associated equipment and software.

Telecommunications service testers perform some or all of the following duties:

- Operate computerized testing systems to conduct service tests on customer lines and equipment
- Determine the nature, cause and location of service trouble
- Initiate the dispatch of appropriate repair personnel
- Complete test reports and maintain test and service records
- May assist repair personnel to test lines, circuits and systems, isolate and clear cable faults and verify records.

Telecommunications equipment technicians perform some or all of the following duties:

- Install, remove and maintain various telecommunications equipment and related systems such as telex and facsimile machines, teletypewriters, mobile radios, cellular telephones, pagers and other related telecommunications equipment
- Configure operating systems and install software for access to the Internet
- Inspect and test operation of telecommunications equipment
- Diagnose and locate equipment faults, and adjust, replace or repair telecommunications equipment.

Employment requirements

- Completion of secondary school is required.
- Telephone and switch network installers and repairers require completion of an apprenticeship program ranging from three to four years

  or

  A combination of over three years work experience in the trade and some high school, college or industry related courses.
- Telecommunications equipment technicians usually require completion of a college electrical and electronics program and several months of on-the-job training

  or

  Completion of a three- or four-year apprenticeship training program.

7246 Telecommunications Installation and Repair Workers

- Trade certification for communications electrician (network craft) is available, but voluntary, in Alberta, the Northwest Territories and the Yukon.
- Experience as an installer and repairer (telephone and switch network) is usually required for service testers.

Classified elsewhere

- *Electronic Service Technicians (Household and Business Equipment)* (2242)
- Supervisors of telecommunication installation and repair workers (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)
- *Telecommunications Line and Cable Workers* (7245)

7247 Cable Television Service and Maintenance Technicians

Cable television service technicians install, maintain and repair cable and satellite television and Internet signal and associated equipment in homes and commercial buildings. Cable television maintenance technicians maintain and repair cable television transmission and distribution systems and associated hardware. They are employed by cable and satellite television companies.

Examples of titles classified in this unit group

apprentice community antenna television (CATV) technician
cable television installer
cablevision servicer
CATV technician
direct broadcast satellite (DBS) technician – cable television
installation technician, cable television
maintenance technician, cable television

Main duties

Cable television service technicians perform some or all of the following duties:

- Communicate with subscribers and company personnel to determine work assignments
- Connect, disconnect and relocate cable outlets, install splitters, converters, decoders, satellite and pay TV equipment, and install other cable hardware and systems at subscriber's premises
- Install cable modems and software to enable Internet access at subscriber's premises
- Inspect, test and repair cable and satellite television signals and associated equipment at subscriber's premises

Cable television maintenance technicians perform some or all of the following duties:

- Maintain and repair main aerial and underground coaxial and fibre optic cable television transmission lines, trunking and related distribution and interconnecting systems including power supplies and amplifiers
- Inspect, monitor, test and adjust cable transmission and distribution systems
- Repair or replace faulty cables, power supplies, amplifiers and other associated transmission and distribution equipment
- Climb and work aloft on poles, ladders or other support structures
- Communicate with other workers to co-ordinate the preparation and completion of work assignments.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in electronics *or*
- A combination of college, correspondence or industry courses related to electronics and electrical systems and on-the-job training
  or
  Completion of a four-year CATV technician apprenticeship program is required.
- Trade certification for CATV technicians is available, but voluntary, in British Columbia.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Supervisors of cable television service and maintenance technicians (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)
- Workers who install aerial or underground cable television lines (in 7245 *Telecommunications Line and Cable Workers*)

7251 Plumbers

Plumbers install, repair and maintain pipes, fixtures and other plumbing equipment used for water distribution and waste water disposal in residential, commercial and industrial buildings. They are employed in maintenance departments of factories, plants and similar establishments, by plumbing contractors, or they may be self-employed.

Examples of titles classified in this unit group

maintenance plumber
plumber
plumber apprentice
plumbing mechanic

Main duties

Plumbers perform some or all of the following duties:

- Read blueprints, drawings and specifications to determine layout of plumbing system, water supply network and waste and drainage systems
- Install, repair and maintain domestic, commercial or industrial plumbing fixtures and systems
- Locate and mark positions for pipe connections, passage holes and fixtures in walls and floors
- Cut opening in walls and floors to accommodate pipe and pipe fittings
- Measure, cut, bend and thread pipes using hand and power tools or machines
- Join pipes using couplings, clamps, screws, bolts, cement or soldering, brazing and welding equipment
- Test pipes for leaks using air and water pressure gauges
- May prepare cost estimates.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program

  or

  A combination of over five years of work experience in the trade and some high school, college or industry courses in plumbing is usually required to be eligible for trade certification.
- Trade certification is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Saskatchewan, Alberta and British Columbia and available, but voluntary, in Newfoundland, Manitoba, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is available to qualified plumbers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Gas Fitters* (7253)
- *Steamfitters, Pipefitters and Sprinkler System Installers* (7252)
- Supervisors of plumbers (in 7213 *Contractors and Supervisors, Pipefitting Trades*)

7252 Steamfitters, Pipefitters and Sprinkler System Installers

Steamfitters and pipefitters lay out, assemble, fabricate, maintain, troubleshoot and repair piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems. Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes. Steamfitters, pipefitters and sprinkler system installers are employed in maintenance departments of factories, plants and similar establishments, by pipefitting and sprinkler system contractors, or they may be self-employed.

Examples of titles classified in this unit group

apprentice pipefitter-steamfitter
fire sprinkler fitter
marine pipefitter
pipefitter
sprinkler system fitter
sprinkler system installer
sprinkler system installer apprentice
steamfitter

Main duties

Steamfitters and pipefitters perform some or all of the following duties:

- Read and interpret drawings, blueprints and specifications to determine layout requirements
- Cut openings for pipe in walls, floors and ceilings using hand or power tools or machines
- Select type and size of pipe required
- Measure, cut, thread and bend pipe to required shape using hand and power tools
- Weld, braze, cement, solder and thread joints to join pipes and fabricate sections of piping system
- Install supports, valves, piping and control systems
- Test system for leaks using testing equipment
- Clean and maintain pipe units and fittings and flush system
- Remove and replace worn components and reactivate system
- May prepare cost estimates for clients.

Sprinkler system installers perform some or all of the following duties:

- Read and interpret drawings, specifications and fire codes to determine layout requirements
- Install clamps, brackets and hangers to support piping system and sprinkler and fire protection equipment, using hand and power tools
- Select, measure, cut, ream and thread pipe, install sprinkler heads and mount prepared pipe in supports
- Join pipes and piping sections using soldering and welding equipment
- Connect piping system to water mains, supply tanks, pumps, compressors and control equipment
- Installs valves, alarms and associated equipment
- Test system for leaks using air or liquid pressure equipment
- Service and repair sprinkler system
- May prepare cost estimates for clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program
  or
  A combination of over five years of work experience in the trade and some high school, college or industry courses in steamfitting, pipefitting or sprinkler system installation is usually required to be eligible for trade certification.
- Steamfitter-pipefitter trade certification is compulsory in Quebec, Ontario, Alberta and British Columbia and available, but voluntary, in all other provinces and the territories.
- Sprinkler system installer trade certification is compulsory in Quebec and British Columbia and available, but voluntary, in all other provinces and territories.

- Interprovincial trade certification (Red Seal) is also available to qualified steamfitters-pipefitters and sprinkler system installers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Gas Fitters* (7253)
- *Plumbers* (7251)
- Supervisors of steamfitters, pipefitters and sprinkler system installers (in 7213 *Contractors and Supervisors, Pipefitting Trades*)

7253 Gas Fitters

Gas fitters install, inspect, repair and maintain gas lines and gas equipment such as meters, regulators, heating units and appliances in residential, commercial and industrial establishments. They are employed by gas utility companies and gas servicing companies.

Examples of titles classified in this unit group

gas customer servicer
gas fitter
gas fitter apprentice
gas servicer
gas technician

Main duties

Gas fitters perform some or all of the following duties:

- Study drawings and specifications to determine the layout of the installation and materials required
- Measure and mark reference points for installation of gas lines and equipment
- Install and maintain gas meters and regulators and gas lines between gas unit and gas meter
- Install, maintain and service gas heating units and their components, such as burners, valves and automatic controls
- Repair and service gas appliances and related equipment
- Test and replace defective equipment or components
- Test and adjust control mechanisms and check pipes and piping connections for gas leaks using gas detecting devices
- Attend to gas escape calls and assist in the investigation of gas fires and explosions
- Prepare reports on work performed and condition of facilities
- Advise clients regarding standards, safety features and maintenance of gas units and system
- Convert motor vehicles or appliances to use natural gas fuels.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- or three-year gas fitter apprenticeship program
  or
  Several years of work experience in a pipefitting trade plus completion of a high school, college or industry gas fitter program are required.
- Gas fitter trade certification is compulsory in Nova Scotia, Alberta, British Columbia, the Northwest Territories and the Yukon.
- A provincial gas fitter licence is usually required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Plumbers* (7251)
- *Steamfitters, Pipefitters and Sprinkler System Installers* (7252)
- Supervisors of gas fitters (in 7213 *Contractors and Supervisors, Pipefitting Trades*)

7261 Sheet Metal Workers

Sheet metal workers fabricate, assemble, install and repair sheet metal products. They are employed by sheet metal fabrication shops, sheet metal products manufacturing companies, sheet metal work contractors and various industrial sectors.

Examples of titles classified in this unit group

apprentice sheet metal worker
sheet metal fabricator
sheet metal mechanic
sheet metal worker
tinsmith

Main duties

Sheet metal workers perform some or all of the following duties:

- Read engineering and architectural drawings, sketches and work specifications to be performed, and lay out, measure and mark sheet metal according to drawings or templates
- Develop patterns for sheet metal using computer-assisted design and drafting (CAD) software package
- Operate light metalworking machines such as shears, brakes, punches, and drill presses, including computer numerical control (CNC) equipment to cut, bend, punch, drill, shape or straighten sheet metal
- Operate computerized laser or plasma cutting equipment to cut sheet metal
- Install and use rigging and hoisting equipment
- Fit and join sheet metal parts using riveting, welding, soldering and similar equipment to fabricate products such as ventilation shafts, exhaust hoods, eavestroughs, partition frames, air and heat ducts, material handling systems, roof decking and sheet metal buildings
- Install sheet metal products according to specifications and building codes
- Grind and buff seams, joints and rough surfaces
- Inspect product quality and installation to ensure conformance to specifications.

Sheet metal workers may specialize in on-site installation or shop manufacture of sheet metal products, or servicing and maintenance of installed equipment and systems.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to five- year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in sheet metal working is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec, Ontario, Saskatchewan, Alberta and British Columbia and available, but voluntary, in all other provinces and territories.
- Interprovincial trade certification (Red Seal) is also available to qualified sheet metal workers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal certification allows for interprovincial mobility.

Classified elsewhere

- Aircraft sheet metal technicians (in 7315 *Aircraft Mechanics and Aircraft Inspectors*)
- *Boilermakers* (7262)
- *Ironworkers* (7264)
- *Metalworking Machine Operators* (9514)
- *Structural Metal and Platework Fabricators and Fitters* (7263)
- Supervisors of sheet metal workers (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)

7262 Boilermakers

Boilermakers fabricate, assemble, erect, test, maintain and repair boilers, vessels, tanks, towers, heat exchangers and other heavy-metal structures. They are employed in boiler fabrication, manufacturing, shipbuilding, construction, electric power generation and similar industrial establishments.

Examples of titles classified in this unit group

boilermaker
boilermaker apprentice
boiler fitter
boiler installer
construction boilermaker
industrial boilermaker
marine boilermaker
pressure vessel fabricator

Main duties

Boilermakers perform some or all of the following duties:

- Read blueprints or specifications to plan sequence of operation
- Lay out plate, sheet steel or other heavy metal and mark bending and cutting lines on work piece using protractors, compasses and drawing instruments or templates
- Set up and operate heavy-metal working machines such as brakes, rolls, shears, flame cutters and drill presses to cut, shape and form metal into parts or sections
- Fit and weld metal parts or sections together to fabricate boilers, vessels, tanks, heat exchangers, piping and other heavy-metal products
- Erect and install boilers and other heavy-metal products according to specifications using hand and power tools
- Repair and perform maintenance work on boilers and other heavy-metal products
- Direct activities of hoist or crane operators and other workers during fabrication, assembly, installation or repair of structures
- Test finished structures using a variety of methods.

Boilermakers may specialize in rigging and hoisting, preparation and layout, or welding aspects of the trade.

Employment requirements

- Completion of secondary school is usually required
- Completion of a three- to four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in boilermaking is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and Alberta and available, but voluntary, in all other provinces.
- Interprovincial trade certification (Red Seal) is also available to qualified boilermakers.

Additional information

- Progression to supervisory positions is possible with experience
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Ironworkers* (7264)
- *Structural Metal and Platework Fabricators and Fitters* (7263)
- Supervisors of boilermakers (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)
- *Welders and Related Machine Operators* (7265)

7263 Structural Metal and Platework Fabricators and Fitters

Structural metal and platework fabricators and fitters fabricate, assemble, fit and install steel or other metal components for buildings, bridges, tanks, towers, boilers, pressure vessels and other similar structures and products. They are employed in structural steel, boiler and platework fabrication plants and by heavy machinery manufacturing and shipbuilding companies.

Examples of titles classified in this unit group

metal fabricator
plater
platework fitter
shipfitter
shipfitter apprentice
steel fabricator
structural steel fitter

Main duties

Structural metal and platework fabricators and fitters perform some or all of the following duties:

- Study engineering drawings and blueprints, determine the materials required, plan the sequence of tasks to cut metal most efficiently
- Construct patterns and templates as guides for layouts
- Lay out reference points and patterns on heavy metal according to component specifications
- Rig, hoist and move materials to storage areas or within worksite
- Assemble and fit metal sections and plates to form complete units or subunits using tack welding, bolting, riveting or other methods
- Set up and operate various heavy-duty metal-working machines such as brake presses, shears, cutting torches, grinders and drills, including computer numerical control (CNC) equipment to bend, cut, form, punch, drill or otherwise form heavy-metal components
- Install fabricated components in final product.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program

  or

  A combination of over four years of work experience in the trade and some college or industry courses in structural steel and platework fabrication is usually required to be eligible for trade certification.
- Trade certification is available, but voluntary, in all provinces.
- Trade certification for ship's platers is available, but voluntary, in Newfoundland.
- Trade certification for shipfitters and shipwrights is available, but voluntary, in British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified metal fabricators (fitters).

Additional information

- Some structural metal and platework fabricators and fitters may also be certified as skilled welders.
- Progression to supervisory positions is possible with experience.
- Red Seal certification allows for interprovincial mobility.

7263 Structural Metal and Platework Fabricators and Fitters

Classified elsewhere

- *Boilermakers* (7262)
- *Metalworking Machine Operators* (9514)
- Structural steel erectors (in 7264 *Ironworkers*)
- Supervisors of structural metal and platework fabricators and fitters (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)
- *Welders and Related Machine Operators* (7265)

7264 Ironworkers

Ironworkers fabricate, erect, hoist, install, repair and service structural ironwork, precast concrete, concrete reinforcing materials, curtain walls, ornamental iron and other metals used in the construction of buildings, bridges, highways, dams and other structures and equipment. They are employed by construction ironwork contractors.

Examples of titles classified in this unit group

ironworker
ironworker apprentice
ironworker – metal building systems erector
ornamental ironworker
reinforcing ironworker
structural steel erector

Main duties

Ironworkers perform some or all of the following duties:

- Read blueprints and specifications to lay out work
- Unload and position steel units so each piece can be hoisted as needed
- Erect and install scaffolding, hoisting equipment and rigging
- Signal crane operator to position steel units according to blueprints
- Align and weld or bolt steel units in place
- Erect structural and architectural precast concrete components for buildings, bridges, towers and other structures
- Assemble and erect prefabricated metal structures
- Position and secure steel bars or metal mesh in concrete forms to reinforce concrete structures
- Install ornamental and other structural metalwork such as curtain walls, metal stairways, railings and power doors
- Examine structures and equipment for deterioration, defects or non-compliance with specifications
- Dismantle structures and equipment when required.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year apprenticeship program
  or
  Over three years of work experience in the trade and some high school, college or industry courses in ironworking are usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and Alberta and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan and British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified ironworkers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Boilermakers* (7262)
- *Structural Metal and Platework Fabricators and Fitters* (7263)
- Supervisors of ironworkers (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)

7265 Welders and Related Machine Operators

Welders operate welding equipment to weld ferrous and non-ferrous metals. This unit group also includes machine operators who operate previously set up production welding, brazing and soldering equipment. They are employed by companies that manufacture structural steel and platework, boilers, heavy machinery, aircraft and ships and other metal products, and by welding contractors and welding shops, or they may be self-employed.

Examples of titles classified in this unit group

aviation welding technician
brazing machine operator
brazing machine setter
electric arc welder
journeyman/woman welder
laser welding operator
pressure vessel welder
production welder
soldering machine operator
spot welder
welder
welder apprentice
welder-fitter

Main duties

Welders perform some or all of the following duties:

- Read and interpret blueprints or welding process specifications
- Operate manual or semi-automatic welding equipment to fuse metal segments using processes such as gas tungsten arc (GTAW), gas metal arc (GMAW), flux-cored arc (FAW), plasma arc (PAW), shielded metal arc (SMAW), oxy-acetylene (OAW), resistance welding and submerged arc welding (SAW)
- Operate manual or semi-automatic flame-cutting equipment
- Operate brazing and soldering equipment
- Operate metal shaping machines such as brakes, shears and other metal straightening and bending machines
- Repair worn parts of metal products by welding on extra layers.

Welders may specialize in certain types of welding such as custom fabrication, ship building and repair, aerospace precision welding, pressure vessel welding, pipeline construction welding, structural construction welding, or machinery and equipment repair welding.

Welding, brazing and soldering machine operators perform some or all of the following duties:

- Operate previously set up welding machines such as spot, butt and seam resistance or gas and arc welding machines to fabricate or repair metal parts
- Operate previously set up brazing or soldering machines to bond metal parts or to fill holes, indentations and seams of metal articles with solder
- Start up, shut down, adjust and monitor robotic welding production line
- Assist with the maintenance and repair of welding, brazing and soldering equipment
- May adjust welding heads and tooling according to work specifications.

Employment requirements

Welders

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program
  or
  A combination of over three years of work experience in the trade and some college or industry courses in welding is usually required to be eligible for trade certification.
- Trade certification is compulsory in Alberta and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Manitoba, Saskatchewan, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified welders.

Welding, brazing and soldering machine operators

- Some secondary school education is required.
- Several months of on-the-job training are usually provided.

- Experience as a machine operator helper may be required.
- Experience with robotics may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification for welders allows for interprovincial mobility.

Classified elsewhere

- Supervisors of welders in this unit group (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)
- Underwater welders (in 7382 *Commercial Divers*)
- Wave soldering machine operators (in 9483 *Electronics Assemblers, Fabricators, Inspectors and Testers*)
- Welding inspectors (in 2261 *Nondestructive Testers and Inspectors*)
- Welding technologists (in 2212 *Geological and Mineral Technologists and Technicians*)

7266 Blacksmiths and Die Setters

Blacksmiths forge a variety of metal items, such as tools, chains, wrought iron fixtures, agricultural implements and structural components. Die setters set up forging machines, such as forging presses, drop hammers, forging rolls and upsetters. They are employed primarily by fabricated metal products, machinery and transportation equipment manufacturing companies.

Examples of titles classified in this unit group

anvilsmith
blacksmith
die setter
hammersmith
toolsmith

Main duties

Blacksmiths perform some or all of the following duties:

- Heat metal items in forge
- Hammer, punch, cut or otherwise form metal workpieces into desired shapes and sizes
- Forge special tools from metal or devise special jigs or fixtures
- Temper, harden or anneal forged items
- Shape metal using power forging machinery.
- Die setters perform some or all of the following duties:
- Select dies for forging according to work order and specifications
- Position, align and bolt dies to ram and anvil of power presses and hammers
- Check initial operation of forging machine to ensure that machine is set up properly for use by forging machine operators.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Several years of experience as a forging machine operator may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Agriculture blacksmiths, farriers and horseshoers (in 7383 *Other Trades and Related Occupations*)
- *Forging Machine Operators* (9512)
- Supervisors of blacksmiths and die setters (in 7214 *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades*)

7271 Carpenters

Carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood-substitutes and other materials. They are employed by construction companies, carpentry contractors, maintenance departments of factories, plants and other establishments, or they may be self-employed.

Examples of titles classified in this unit group

apprentice carpenter
carpenter
finish carpenter
journeyman/woman carpenter
maintenance carpenter
renovation carpenter
rough carpenter

Main duties

Carpenters perform some or all of the following duties:

- Read and interpret blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepare layouts in conformance to building codes, using measuring tools
- Measure, cut, shape, assemble and join materials made of wood, wood substitutes and other materials
- Build foundations, install floor beams, lay subflooring and erect walls and roof systems
- Fit and install trim items, such as doors, stairs, moulding and hardware
- Maintain, repair and renovate residences and wooden structures in mills, mines, hospitals, industrial plants and other establishments
- Supervise apprentices and other construction workers
- May prepare cost estimates for clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in carpentry is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available but voluntary, in all other provinces and the territories.
- Interprovincial trade certification (Red Seal) is also available to qualified carpenters.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Cabinetmakers* (7272)
- Supervisors of carpenters (in 7215 *Contractors and Supervisors, Carpentry Trades*)
- *Woodworking Machine Operators* (9513)

7272 Cabinetmakers

Cabinetmakers construct and repair wooden cabinets, furniture, fixtures and related products. They are employed by furniture manufacturing or repair companies, construction companies and cabinetmaking contractors, or they may be self-employed.

Examples of titles classified in this unit group

cabinetmaker
cabinetmaker apprentice
custom wood furniture maker
furniture cabinetmaker

Main duties

Cabinetmakers perform some or all of the following duties:

- Study plans, specifications or drawings of articles to be made, or prepare specifications
- Mark outlines or dimensions of parts on wood
- Operate woodworking machines, such as power saws, jointers, mortisers and shapers, and use hand tools to cut, shape and form parts and components
- Trim joints and fit parts and subassemblies together to form complete unit using glue and clamps and reinforce joints using nails, screws or other fasteners
- Sand wooden surfaces and apply veneer, stain or polish to finished products
- Repair or restyle wooden furniture, fixtures and related products
- May estimate amount, type and cost of materials required.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program

  or

  A combination of over four years of work experience in the trade and some high school or college courses in cabinetmaking is usually required to be eligible for trade certification.
- Trade certification is available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Alberta, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified cabinetmakers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Carpenters* (7271)
- Supervisors of cabinetmakers (in 7215 *Contractors and Supervisors, Carpentry Trades*)
- *Woodworking Machine Operators* (9513)

7281 Bricklayers

Bricklayers lay bricks, concrete blocks, stone and other similar materials to construct or repair walls, arches, chimneys, fireplaces and other structures in accordance with blueprints and specifications. They are employed by construction companies and bricklaying contractors or they may be self-employed.

Examples of titles classified in this unit group

apprentice bricklayer
bricklayer
brickmason
refractory bricklayer
stonecutter
stonemason

Main duties

Bricklayers perform some or all of the following duties:

- Read sketches and blueprints to calculate materials required
- Cut and trim bricks and concrete blocks to specification using hand and power tools
- Prepare and lay bricks, concrete blocks, stone, structural tiles and similar materials to construct or repair walls, foundations and other structures in residential, industrial and commercial construction
- Lay bricks or other masonry units to build residential or commercial chimneys and fireplaces
- Lay radial bricks to build masonry shells of industrial chimneys
- Lay or install firebricks to line industrial chimneys and smokestacks
- Line or reline furnaces, kilns, boilers and similar installations using refractory or acid-resistant bricks, refractory concretes, plastic refractories and other materials
- Lay bricks, stone or similar materials to provide veneer facing to walls or other surfaces
- Construct and install prefabricated masonry units
- Lay bricks or other masonry units to build patios, garden walls and other decorative installations
- May restore, clean or paint existing masonry structures.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in bricklaying is usually required to be eligible for trade certification.
- Trade certification for bricklayers is compulsory in Nova Scotia, New Brunswick and Quebec and available, but voluntary, in all other provinces and the Yukon.
- Trade certification for stonemasons is available, but voluntary, in Newfoundland.
- Interprovincial trade certification (Red Seal) is also available to qualified bricklayers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Concrete Finishers* (7282)
- Supervisors of bricklayers (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)
- *Tilesetters* (7283)

7282 Concrete Finishers

Concrete finishers smooth and finish freshly poured concrete, apply curing or surface treatments and install, maintain and restore various masonry structures such as floors, ceilings, sidewalks, roads and patios. They are employed by construction companies, cement and concrete contractors and manufacturers of precast concrete products, or they may be self-employed.

Examples of titles classified in this unit group

cement finisher apprentice
cement mason
concrete finisher
concrete mason
precast concrete finisher

Main duties

Concrete finishers perform some or all of the following duties:

- Check formwork, granular base and steel reinforcement materials and direct placement of concrete into forms or onto surfaces according to grade
- Fill hollows and remove high spots to smooth freshly poured concrete
- Operate power vibrator to compact concrete
- Level top surface of concrete according to grade and depth specifications using straightedge or float
- Impart desired finish to concrete surfaces using hand and power tools
- Install anchor bolts, steel plates, door sills and other fixtures in freshly poured concrete
- Apply hardening and sealing compounds to cure surface of concrete
- Waterproof, damp-proof and restore concrete surfaces
- Repair, resurface and replace worn or damaged sections of floors, walls, roads and other concrete structures.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to four- year apprenticeship program

  or

  Over three years of work experience in the trade and some high school, college or industry courses in cement finishing are usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta, and British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified concrete finishers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Bricklayers* (7281)
- Concrete products machine operators (in 9414 *Concrete, Clay and Stone Forming Operators*)
- Supervisors of concrete finishers (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7283 Tilesetters

Tilesetters cover interior and exterior walls, floors and ceilings with ceramic, marble and quarry tile, mosaics or terrazzo. They are employed by construction companies and masonry contractors, or they may be self-employed.

Examples of titles classified in this unit group

apprentice tilesetter
ceramic tile installer
marble setter
terrazzo polisher
terrazzo worker
tile installer
tilesetter

Main duties

Tilesetters perform some or all of the following duties:

- Prepare, measure and mark surface to be covered
- Build underbeds and install anchor bolts, wires and brackets
- Mix, apply and spread mortar, cement, mastic, glue or other adhesives using hand trowel
- Set tiles in position and apply pressure to affix tiles to base
- Align and straighten tile using levels, squares and straightedges
- Cut and fit tiles around obstacles and openings using hand and power cutting tools
- Pack grout into joints between tiles and remove excess grout
- Install tile strips
- Lay and set mosaic tiles to create decorative wall, mural and floor designs
- Mix, lay and polish terra surfaces
- Cut, polish and install marble and granite
- Remove and replace cracked or damaged tiles
- May prepare cost estimates and orders.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program
  or
  A combination of over three years of work experience in the trade and some high school, college or industry courses in tilesetting is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in Saskatchewan, Alberta and British Columbia.

Additional information

- In provinces where there is no apprenticeship, this trade is usually learned through several years of on-the-job training.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Bricklayers* (7281)
- *Plasterers, Drywall Installers and Finishers and Lathers* (7284)
- Supervisors of tilesetters (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7284 Plasterers, Drywall Installers and Finishers and Lathers

Plasterers apply finish, and maintain and restore plaster or similar materials, on interior and exterior walls, ceilings and building partitions to produce plain or decorative surfaces. Drywall installers and finishers install and finish drywall sheets and various types of ceiling systems. Lathers install support framework for ceiling systems, interior and exterior walls and building partitions. They are employed by construction companies and by plastering, drywalling and lathing contractors, or they may be self-employed.

Examples of titles classified in this unit group

acoustical ceiling installer
ceiling installer
drywall applicator
drywall finisher
drywall installer and finisher apprentice
drywall taper
interior systems mechanic
lather
lather apprentice
plasterer
plasterer apprentice
sheetrock applicator
wood lather

Main duties

Plasterers perform some or all of the following duties:

- Clean and prepare surfaces
- Mix plaster ingredients in trough to desired consistency
- Apply, level and smooth coats of plaster using trowels, floats, brushes and spraying equipment
- Trowel or spray coats of stucco over exteriors of buildings to form weatherproof surfaces
- Finish corners and angles and create decorative designs in finish coat, if required
- Cure freshly plastered surfaces
- Mould and install ornamental plaster panels, cornices and trim
- Spray acoustic materials or texture finish over walls and ceilings.

Drywall installers and finishers perform some or all of the following duties:

- Measure, cut and fit drywall sheets for installation on walls and ceilings
- Position and secure sheets to metal or wooden studs or joists
- Cut and install metal corner beads to protect exterior corners
- Fill joints, nail indentations, holes and cracks with joint compound using trowel and broad knife
- Tape over joints using taping machine and embed tape in compound
- Smooth out excess compound and allow coat to dry
- Apply successive coats of compound and sand seams and joints
- Fabricate and install suspended metal ceiling grids and place in panels to form acoustical and coffered ceilings.

Lathers perform some or all of the following duties:

- Prepare wall and ceiling layouts
- Install metal stud framing and furring for interior drywall or plaster walls and ceilings, using hand and power tools
- Attach metal or gypsum lath to studs or furring using nails, screws, clips or wire ties
- Cut openings in lath for heating and ventilation piping, ducts and electrical outlets
- Install corner beads and wire mesh around beams to which plaster is to be applied
- May install acoustic tile, hangers for suspended ceilings and metal studs for composition wallboard or lath.

7284 Plasterers, Drywall Installers and Finishers and Lathers

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program in plastering, drywalling or lathing

  or

  A combination of over three years of work experience and some high school, college or industry courses in plastering, drywalling or lathing is usually required.
- Plasterer trade certification is compulsory in Quebec and available, but voluntary, in Saskatchewan and British Columbia.
- Drywall installer and finisher trade certification is available, but voluntary, in British Columbia.
- Lather trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified lathers (interior systems mechanic).

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification for lathers (interior systems mechanic) allows interprovincial mobility.

Classified elsewhere

- Supervisors of trade workers in this unit group (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7291 Roofers and Shinglers

Roofers install, repair or replace flat roofs and shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed.

Examples of titles classified in this unit group

apprentice roofer
asphalt roofer
built-up roofer
flat roofer
residential steep roofer
roofer
shingler
single-ply roofer

Main duties

Roofers perform some or all of the following duties:

- Install, repair or replace built-up roofing systems using materials such as asphalt saturated felts and hot asphalt and gravel
- Install, repair or replace single-ply roofing system using waterproof sheet materials such as modified plastics, elastomeric or other asphaltic compositions
- Install, repair or replace shingles, shakes and other roofing tiles on sloped roofs of buildings
- Install sheet metal flashings
- Apply waterproof coatings to concrete or other masonry surfaces below or above ground level
- Install and repair metal roofs using hand and power tools
- Set up scaffolding to provide safe access to roofs
- May estimate materials required and quote costs.

Shinglers perform some or all of the following duties:

- Install or replace asphalt shingles, wood shingles and shakes and masonry or baked clay roofing tiles on sloped roofs of buildings
- Set up scaffolding to provide safe access to roofs.

Employment Requirements

- Completion of secondary school is usually required.
- For roofers, completion of a two- to three-year apprenticeship program
  or
  Over three years of work experience in the trade are usually required to be eligible for trade certification.
- Roofing trade certification is compulsory in Quebec and British Columbia and available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, Alberta, the Yukon and the Northwest Territories.
- Trade certification for residential steep roofers is available, but voluntary, in British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified roofers.
- Shinglers require one to two years of on-the-job training.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification for roofers allows for interprovincial mobility.

Classified elsewhere

- Supervisors of roofers and shinglers (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7292 Glaziers

Glaziers cut, fit, install and replace glass in residential, commercial and industrial buildings, on exterior walls of buildings and other structures and in furniture and other products. They are employed by construction glass installation contractors, retail service and repair shops and glass fabrication shops.

Examples of titles classified in this unit group

glazier
glazier and metal mechanic
glazier apprentice
plate glass installer
stained glass glazier
structural glass glazier

Main duties

Glaziers perform some or all of the following duties:

- Read and interpret blueprints and specifications to determine type and thickness of glass, frame, installation procedure and materials required
- Measure and mark glass and cut glass using glass cutters or computerized cutter
- Tint glass and create patterns on glass by etching, sandblasting or painting designs
- Assemble, erect and dismantle scaffolds, rigging and hoisting equipment
- Position glass panes into frames and secure glass using clips, points or mouldings
- Assemble and install prefabricated glass, mirrors or glass products on walls, ceilings or exteriors of building
- Fabricate metal frames for glass installation
- Install, fit, fabricate and attach architectural metals or related substitute products in commercial and residential buildings
- Install pre-cut mirrors and opaque and transparent glass panels in frames to form exterior walls of buildings
- Replace glass in furniture and other products
- Prepare and install skylights, showcases and aquariums and stained or other special glass in churches, museums, sports and other establishments
- Repair and service residential windows, commercial aluminum doors and other glass supporting structures, and replace damaged glass or faulty sealant
- May prepare cost estimates for customers or clients.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in glazing is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in all other provinces and territories.
- Interprovincial trade certification (Red Seal) is also available to qualified glaziers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Glass Forming and Finishing Machine Operators and Glass Cutters* (9413)
- Supervisors of glaziers (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7293 Insulators

Insulators apply insulation materials to plumbing, air-handling, heating, cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures, to prevent or reduce the passage of heat, cold, sound or fire. They are employed by construction companies and insulation contractors, or they may be self-employed.

Examples of titles classified in this unit group

boiler and pipe insulator
building insulator
firestopping insulator
heat and frost insulator
insulation applicator
insulation mechanic
insulator
insulator apprentice
sound insulator

Main duties

Insulators perform some or all of the following duties:

- Read and interpret drawings and specifications to determine insulation requirements and select type of insulation required
- Measure and cut insulating material to required dimensions using hand and power tools
- Apply and secure insulation using spraying, blowing, pasting, strapping, taping and other application and installation methods
- Fit insulation around obstructions and between studs and joists
- Install vapour barriers
- Apply waterproofing cement over insulating materials to finish surfaces
- Remove asbestos or urea-formaldehyde insulation from buildings when required.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program

  or

  A combination of over four years of work experience in the trade and some high school, college or industry courses in insulating is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Saskatchewan, Alberta, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified insulators (heat and frost).

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Supervisors of insulators (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7294 Painters and Decorators

Painters and decorators apply paint, wallpaper and other finishes to interior and exterior surfaces of buildings and other structures. They are employed by construction companies, painting contractors, building maintenance contractors, or they may be self-employed.

Examples of titles classified in this unit group

construction painter
maintenance painter
painter
painter and decorator
painter and decorator apprentice
paperhanger

Main duties

Painters and decorators perform some or all of the following duties:

- Read specifications to determine quantities of materials required
- Prepare and clean surfaces using methods such as scraping, sanding, sand-blasting, hydro-blasting and steam-cleaning; remove old wallpaper and loose paint; repair cracks and holes in walls; and sandpaper and apply sealer
- Mix and thin paint to obtain desired colour and texture
- Apply paint or other materials, such as stains, lacquer, enamel, oil, varnish, fibreglass, metal coating or fire retardant using brushes, rollers or spray equipment
- Measure, cut and apply wallpaper or fabric to walls
- Assemble and erect scaffolding and swing gates
- Advise customer on selection of colour schemes and choice of wall coverings
- May provide cost estimates to clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
  or
  Over three years of work experience in the trade is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in all other provinces and territories.
- Interprovincial trade certification (Red Seal) is also available to qualified painters and decorators.

Additional information

- Progression to a supervisory position is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Automotive painters (in 7322 *Motor Vehicle Body Repairers*)
- Interior decorators (in 6421 *Retail Salespersons and Sales Clerks*)
- *Painters and Coaters – Industrial* (9496)
- *Painters, Sculptors and Other Visual Artists* (5136)
- Supervisors of painters and decorators (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7295 Floor Covering Installers

Floor covering installers install carpet, wood, linoleum, vinyl and other resilient floor coverings in residential, commercial, industrial and institutional buildings. They are employed by construction companies, floor-covering contractors and carpet outlets, or they may be self-employed.

Examples of titles classified in this unit group

carpet installer
carpet layer
floor covering installer
floor covering installer apprentice
floor covering mechanic
resilient floor installer
rug installer
vinyl floor installer

Main duties

Floor covering installers perform some or all of the following duties:

- Inspect, measure and mark surfaces to be covered
- Measure, cut and fasten underlay and underpadding
- Measure, cut and install carpeting using hand or machine stitcher, seaming iron, bonding tape or other bonding materials
- Stretch carpeting using knee-kicker or power stretcher and secure carpeting to floor or other surfaces using staple gun or other devices
- Measure, cut and install resilient floor covering using adhesive, rollers and other hand tools
- Install hardwood floors, such as strip floors, block floors or plank floors using glue, staples, nails or other means
- Inspect and repair damaged floor coverings
- May estimate material and labour costs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year apprenticeship program

  or

  Over three years of work experience in the trade is usually required to be eligible for trade certification.
- Trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Manitoba, Saskatchewan, Alberta, British Columbia and the Northwest Territories.
- Interprovincial trade certification (Red Seal) is also available to qualified floor covering installers.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Supervisors of floor covering installers (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7311 Construction Millwrights and Industrial Mechanics (Except Textile)

Construction millwrights and industrial mechanics install, maintain, troubleshoot and repair stationary industrial machinery and mechanical equipment. Construction Millwrights are employed by millwrighting contractors. Industrial mechanics are employed in manufacturing plants, utilities and other industrial establishments.

Examples of titles classified in this unit group

construction millwright
industrial mechanic
industrial mechanic apprentice
maintenance millwright
millwright
millwright apprentice
plant equipment mechanic
treatment plant mechanic

Main duties

Construction millwrights and industrial mechanics perform some or all of the following duties:

- Read blueprints, diagrams and schematic drawings to determine work procedures
- Install, align, dismantle and move stationary industrial machinery and mechanical equipment, such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjust machinery and repair or replace defective parts
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Clean, lubricate and perform other routine maintenance work on machinery
- Construct foundations for machinery or direct other workers to construct foundations
- Assemble machinery and equipment prior to installation using hand and power tools and welding equipment.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
  or
  A combination of over five years of work experience in the trade and some high school, college or industry courses in industrial machinery repair or millwrighting is usually required to be eligible for trade certification.
- Industrial mechanic trade certification is compulsory in Quebec and available, but voluntary, in all other provinces and territories.
- Construction millwright trade certification is available, but voluntary, in Ontario.
- Interprovincial trade certification (Red Seal) is also available to qualified industrial mechanics or millwrights.

Additional information

- Construction millwrights are mostly engaged in the initial installation of industrial plant machinery and equipment; industrial mechanics are more concerned with the post-installation maintenance and repair of machinery and equipment.
- Industrial mechanics and millwrights may be cross-trained in a second trade such as pipefitting, welding, machining or electrical maintenance.
- Progression to supervisory positions is possible with experience.
- Red Seal certification allows for interprovincial mobility.

7311 Construction Millwrights and Industrial Mechanics (Except Textile)

Classified elsewhere

- *Heavy-Duty Equipment Mechanics* (7312)
- *Industrial Instrument Technicians and Mechanics* (2243)
- Supervisors of industrial mechanics and millwrights (in 7216 *Contractors and Supervisors, Mechanic Trades*)
- *Textile Machinery Mechanics and Repairers* (7317)

7312 Heavy-Duty Equipment Mechanics

Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in construction, transportation, forestry, mining, oil and gas, material handling, landscaping, land clearing, farming and similar activities. They are employed by companies which own and operate heavy equipment, by heavy equipment dealers, rental and service establishments, and by railway transport companies and urban transit systems.

Examples of titles classified in this unit group

construction equipment mechanic
diesel mechanic, heavy equipment
farm equipment mechanic
heavy-duty equipment mechanic apprentice
heavy-duty equipment technician
heavy equipment mechanic
heavy mobile logging equipment mechanic
heavy mobile mining equipment mechanic
locomotive mechanic
tractor mechanic

Main duties

Heavy-duty equipment mechanics perform some or all of the following duties:

- Check bulldozers, cranes, graders and other heavy construction, agricultural, logging and mining equipment for proper performance and inspect equipment to detect faults and malfunctions
- Diagnose faults or malfunctions using computerized and other testing equipment to determine extent of repair required
- Adjust equipment and repair or replace defective parts, components or systems, using hand and power tools
- Test repaired equipment for proper performance and to ensure that work meets manufacturers' specifications
- Clean, lubricate and perform other routine maintenance work on equipment
- Service attachments and working tools such as harvesting and tillage equipment, blades, ploughs, winches and side booms
- May perform repair work on heavy trucks
- May attach components and adjust new farm equipment.

Heavy-duty and farm equipment mechanics may specialize in specific types of machinery such as combines or tracked vehicles, or in engine overhaul, power shift transmissions, fuel injection, hydraulics or electronics.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to five-year apprenticeship program

  or

  A combination of over four years of work experience in the trade and some high school, college or industry courses in heavy equipment repair is usually required to be eligible for trade certification.
- Heavy-duty equipment mechanic trade certification is compulsory in Quebec and Alberta and available, but voluntary, in all other provinces and territories.
- Farm equipment mechanic trade certification is available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified heavy-duty equipment technicians and farm equipment mechanics.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal certification allows for interprovincial mobility.

7312 Heavy-Duty Equipment Mechanics

Classified elsewhere

- *Construction Millwrights and Industrial Mechanics (Except Textile)* (7311)
- Motor vehicle diesel engine mechanics (in 7321 *Automotive Service Technicians, Truck Mechanics and Mechanical Repairers*)
- Supervisors of heavy equipment mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7313 Refrigeration and Air Conditioning Mechanics

Refrigeration and air conditioning mechanics install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems. They are employed by refrigeration and air conditioning installation contractors, various industrial settings, food wholesalers, engineering firms and retail and servicing establishments. Transport refrigeration mechanics are included in this unit group.

Examples of titles classified in this unit group

central air conditioning mechanic
commercial air conditioning mechanic
heating and cooling mechanic
heating, ventilation and air conditioning (HVAC) mechanic
refrigeration and air conditioning mechanic apprentice
refrigeration mechanic
transport refrigeration mechanic

Main duties

Refrigeration and air conditioning mechanics perform some or all of the following duties:

- Read and interpret blueprints, drawings or other specifications
- Measure and lay out reference points for installation
- Assemble and install refrigeration or air conditioning components such as motors, controls, gauges, valves, circulating pumps, condensers, humidifiers, evaporators and compressors using hand and power tools
- Measure and cut piping, and connect piping using welding and brazing equipment
- Install, troubleshoot and overhaul entire heating, ventilation, air handling, refrigeration and air conditioning systems
- Start up system and test for leaks using testing devices
- Recharge system with refrigerant, check and test regulators, calibrate system and perform routine maintenance or servicing
- Repair and replace parts and components for entire refrigeration, air conditioning, ventilation or heat pump systems
- May install, maintain and repair equipment in refrigerated trucks used to transport food or medical supplies
- May prepare work estimates for clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to five-year apprenticeship program

  or

  A combination of over five years of work experience in the trade and some high school, college or industry courses in refrigeration and air conditioning repair is usually required to be eligible for trade certification.
- Trade certification for refrigeration and air conditioning mechanics is compulsory in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia and available, but voluntary, in all other provinces and territories.
- Trade certification for transport refrigeration mechanics is available, but voluntary in New Brunswick, Alberta and British Columbia.
- Interprovincial trade certification (Red Seal) is also available to qualified refrigeration and air conditioning mechanics.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

7313 Refrigeration and Air Conditioning Mechanics

Classified elsewhere

- Domestic refrigerator or window air conditioner servicers and repairers (in 7332 *Electric Appliance Servicers and Repairers*)
- Supervisors of refrigeration and air conditioning mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7314 Railway Carmen/women

Railway carmen/women inspect, troubleshoot, maintain and repair structural and mechanical components of railway freight, passenger and urban transit rail cars. They are employed by railway transport companies and urban transit systems.

Examples of titles classified in this unit group

rail vehicle mechanic
railway car inspector
railway carman/woman
railway carman/woman apprentice
streetcar and subway car mechanic

Main duties

Railway carmen/women perform some or all of the following duties:

- Inspect interior and exterior components of freight, passenger and urban transit rail cars to determine defects and extent of wear and damage
- Repair and install railway car parts such as compressors, air valves, bearings, couplings, air cylinders and piping
- Repair and maintain electrical and electronic controls for propulsion and braking systems
- Repair defective or damaged metal and wood components, using hand and power tools
- Repair and repaint wooden fixtures
- Replace damaged windows and repair upholstery
- Test and adjust parts using testing gauges and other test equipment
- Perform and document routine maintenance.

Employment requirements

- Completion of secondary school is usually required.
- Completion of an internal company apprenticeship program or three to four years of on-the-job training are usually required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Locomotive mechanics (in 7312 *Heavy-Duty Equipment Mechanics*)
- Railway car repairer foreman/woman (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7315 Aircraft Mechanics and Aircraft Inspectors

Aircraft mechanics maintain, repair, overhaul, modify and test aircraft structures, mechanical and hydraulic systems. Aircraft inspectors inspect aircraft and aircraft systems following manufacture, modification, maintenance, repair or overhaul. Aircraft mechanics and aircraft inspectors are employed by aircraft manufacturing, maintenance, repair and overhaul establishments, and by airlines, the armed forces and other aircraft operators.

Examples of titles classified in this unit group

aircraft gas turbine engine technician
aircraft inspector
aircraft maintenance engineer AME (except avionics)
aircraft mechanic
aircraft structural repair technician
aircraft systems inspector
aviation mechanical component shop technician
certified aircraft technician
hydraulic mechanic, aircraft
inspector, flight test
inspector, repair and overhaul
shop inspector, aircraft repair

Main duties

Aircraft mechanics perform some or all of the following duties:

- Troubleshoot aircraft structural, mechanical or hydraulic systems to identify problems and adjust and repair systems according to specifications, technical drawings, manuals and established procedures
- Repair and overhaul aircraft structural, mechanical or hydraulic systems
- Install or modify aircraft engines, mechanical, hydraulic, flight control, fuel and pneumatic systems
- Dismantle airframes, aircraft engines or other aircraft systems for repair, overhaul and cleaning, and reassemble
- Perform and document routine maintenance
- Order and maintain inventory of parts and supplies.

Aircraft mechanics usually specialize in working on specific aircraft systems such as engines, engine accessories, airframes, propellers, mechanical components or hydraulic systems and specific kinds of aircraft, such as light aircraft, jet transports and helicopters.

Aircraft inspectors perform some or all of the following duties:

- Inspect structural and mechanical systems of aircraft and ensure that these systems meet Transport Canada and company standards of performance and safety
- Inspect work of aircraft mechanics performing maintenance, repair and overhaul, or modification of aircraft and aircraft mechanical systems to ensure adherence to standards and procedures
- Maintain detailed repair, inspection and certification records and reports.

Employment requirements

- Completion of secondary school is required.
- A college diploma in aircraft maintenance
  or
  Completion of a four-year apprenticeship program is usually required.
- Several years of on-the-job training are required for aircraft mechanics.
- Aircraft mechanics and inspectors who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence issued by Transport Canada.
- Trade certification for aircraft maintenance engineers is available, but voluntary, in the Northwest Territories.
- Trade certification for aircraft structural technicians is available, but voluntary, in British Columbia.
- Industry certification from the Canadian Aviation Maintenance Council for some occupations in this unit group is available, but voluntary.
- Aircraft inspectors require several years of experience as an aircraft mechanic.

7315 Aircraft Mechanics and Aircraft Inspectors

Additional information

- Aircraft mechanics may progress to foreman/woman, shop supervisor or aircraft inspector.
- With experience, aircraft inspectors may progress to shop inspector.
- Aircraft mechanics and inspectors may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and aircraft systems.
- AME licences are issued in the following categories:

  General Maintenance
  M – Aircraft

  Specialized Maintenance
  E – Avionics Systems
  S – Structures
  P – Propulsion Systems

Classified elsewhere

- *Aircraft Assemblers and Aircraft Assembly Inspectors* (9481)
- Aircraft engine fitters and assemblers (in 7316 *Machine Fitters*)
- *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors* (2244)
- Aircraft non-destructive inspection technicians (in 2261 *Non-destructive Testers and Inspectors)*
- Government airworthiness inspectors (in 2262 *Engineering Inspectors and Regulatory Officers*)
- Supervisors of aircraft mechanics and aircraft inspectors (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7316 Machine Fitters

Machine fitters fit, assemble and otherwise build heavy industrial machinery and transportation equipment, including aircraft engines. They are employed in industrial machinery and transportation equipment manufacturing industries.

Examples of titles classified in this unit group

aircraft engine fitter
assembly fitter
heavy equipment fitter
machine builder
machine fitter
machine tool builder
mechanical fitter

Main duties

Machine fitters perform some or all of the following duties:

- Read and interpret blueprints, sketches and diagrams to determine assembly operations
- Fit and assemble prefabricated metal parts to build heavy industrial machinery and equipment such as construction, farming, and processing machinery, railway vehicles and aircraft engines
- Move and align subassemblies and components using lifting and transporting devices such as overhead cranes
- Install major components such as gears, pumps, motors or hydraulic assemblies
- Inspect parts, subassemblies and finished products to ensure quality.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a mechanical apprenticeship program, such as millwrighting, machining, pipefitting, automotive service or heavy equipment repair
  or
  Completion of a four-year machine fitter apprenticeship program
  or
  Completion of five years of on-the-job training is usually required.
- Completion of a two- to three-year college program in aircraft manufacturing or general fabrication is required for aircraft engine fitters.
- Certification in a related trade may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Aircraft assemblers (in 9481 *Aircraft Assemblers and Aircraft Assembly Inspectors*)
- Assemblers of electrical industrial equipment (in 9485 *Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers*)
- *Mechanical Assemblers and Inspectors* (9486)
- Millwrights (in 7311 *Construction Millwrights and Industrial Mechanics (Except Textile)*)
- Supervisors of machine fitters (in 7216 *Contractors and Supervisors, Mechanic Trades*)
- *Welders and Related Machine Operators* (7265)

7317 Textile Machinery Mechanics and Repairers

Textile machinery mechanics and repairers install, maintain, repair, overhaul and set up textile machinery such as looms, knitting machines, spinning frames and carding machines. They are employed by textile manufacturing companies.

Examples of titles classified in this unit group

card fixer
card grinder
fixer, textile machinery
knitting machine mechanic
loom fixer
loom technician
mechanic, textile machines
open-end technician
spinning fixer
textile fixer

Main duties

Textile machinery mechanics and repairers perform some or all of the following duties:

- Repair and overhaul electrical and mechanical systems on textile machinery
- Adjust and set up complex machinery for new patterns or products
- Perform maintenance such as cleaning and lubrication of textile machinery, and replace and align moving parts as required
- Recommend equipment changes or modifications and evaluate new equipment
- Troubleshoot, test run and verify machine for proper operation.

Employment requirements

- Completion of secondary school is usually required.
- Up to three years of on-the-job training
  or
  Several years of experience as a mechanic in other industries are usually required.
- Mechanics hired from other industries may require additional training in textile processes.
- Experience as a textile operator, such as weaver or tufting operator, may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Industrial mechanics or millwrights (in 7311 *Construction Millwrights and Industrial Mechanics (Except Textile)*)
- Supervisors of textile machinery mechanics and repairers (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7318 Elevator Constructors and Mechanics

Elevator constructors and mechanics assemble, install, maintain and repair freight and passenger elevators, escalators, moving walkways and other related equipment. They are employed by elevator construction and maintenance companies.

Examples of titles classified in this unit group

elevator constructor
elevator mechanic
elevator mechanic apprentice
escalator repairer

Main duties

Elevator constructors and mechanics perform some or all of the following duties:

- Read and interpret blueprints to determine layout of system components
- Perform preparatory construction work including steel work, wiring and piping
- Install elevators, escalators, moving walkways, dumbwaiters and related equipment according to specifications
- Connect car frames to counterweights with cables and assemble elevator cars
- Install and wire electric and electronic control system devices
- Install, test and adjust safety control devices
- Test operation of newly installed equipment
- Troubleshoot electrical or mechanical systems failures
- Disassemble defective units and repair or replace worn or suspect parts
- Adjust valves, ratchets, seals, brake linings and other components
- Carry out preventative maintenance programs to ensure public safety.

Elevator constructors and mechanics may specialize in construction, maintenance or repair.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some high school, college or industry courses in elevator construction or repair is usually required to be eligible for trade certification.
- Elevator constructor and mechanic trade certification is compulsory in Quebec and Alberta and available, but voluntary, in British Columbia and the Northwest Territories.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Elevator inspectors (in 2262 *Engineering Inspectors and Regulatory Officers*)
- Supervisors of elevator constructors and mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers

Automotive service technicians and truck mechanics inspect, diagnose, repair and service mechanical, electrical and electronic systems and components of cars, buses, and light and commercial transport trucks. They are employed by motor vehicle dealers, garages and service stations, automotive specialty shops, transportation companies and retail establishments which have automotive service shops. This unit group also includes mechanical repairers who perform major repairs and replacement of mechanical units on newly assembled motor vehicles. They are employed by motor vehicle manufacturing companies.

Examples of titles classified in this unit group

automobile mechanic
automotive service technician
automotive service technician apprentice
bus mechanic
car mechanic
mechanical upgrader – motor vehicle manufacturing
motor repairer – motor vehicle manufacturing
motor vehicle mechanic
transmission mechanic
truck and transport mechanic
truck-trailer repairer
tune-up specialist, motor vehicle

Main duties

Automotive service technicians perform some or all of the following duties:

- Review work orders and discuss work with supervisor
- Inspect motor in operation, road test motor vehicle, and test automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace parts and components of automotive systems including fuel, brake, steering and suspension, engine and drive train, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized automotive repair equipment
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service, such as oil changes, lubrications and tune ups
- Advise customers on work performed, general vehicle conditions and future repair requirements.

Mechanical repairers, motor vehicle manufacturing, perform some or all of the following duties:

- Inspect and test mechanical units, such as engines, transmissions, axles and brake systems to locate faults and malfunctions
- Diagnose faults or malfunctions and confirm findings with supervisor to determine whether to repair or replace unit
- Repair or replace mechanical units or components using hand and power tools
- Test and adjust units to specifications for proper performance
- Complete reports to record problems and work performed.

Truck transport and trailer mechanics perform some or all of the following duties:

- Adjust, repair or replace parts and components of commercial transport truck systems including chassis, frame, cab, body, engine and drive train, fuel, air brakes, steering, and hydraulic, electrical and electronic systems
- Adjust, repair or replace parts and components of truck trailer systems including structural, brakes and electrical systems.

Workers in this unit group may specialize in the following areas: engine and fuel systems, transmission systems, air conditioning, cooling and heating systems, steering, alignment, brakes, drive lines, suspension, electrical and electronic systems, truck-trailer repair or diagnostic services.

Employment requirements

Automotive service technicians

- Completion of secondary school is usually required.

7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers

- Completion of a four-year automotive service technician apprenticeship program

  or

  A combination of over four years of work experience in the trade and high school, college or industry courses in automotive technology is required to be eligible for trade certification.
- Automotive service technician trade certification is compulsory in, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Alberta and British Columbia and available, but voluntary, in all other provinces and territories.
- Automotive service technician (fuel and electronic systems) and automotive service technician (transmission) trade certification is compulsory in New Brunswick and Ontario and available, but voluntary, in Prince Edward Island.
- Automotive service technician (steering, suspension and brakes) trade certification is compulsory in New Brunswick and Ontario.
- Motor vehicle repair (service station mechanic) trade certification is compulsory in Nova Scotia and available, but voluntary, in Prince Edward Island.
- Interprovincial trade certification (Red Seal) is also available to qualified automotive service technicians.

Mechanical repairers, motor vehicle manufacturing

- Completion of secondary school is usually required.
- On-the-job training of two to three years is provided by employers.

Truck transport and trailer mechanics

- Completion of secondary school is usually required.
- Completion of a four-year truck and transport mechanic or truck-trailer repair apprenticeship

  or

  A combination of over four years of work experience in the trade and high school, college or industry courses in truck or heavy-duty equipment mechanics is required to be eligible for trade certification.
- Truck and transport mechanic trade certification is compulsory in Nova Scotia and Ontario and available, but voluntary, in Newfoundland, Prince Edward Island, New Brunswick, Quebec, Manitoba, Saskatchewan, British Columbia and the Yukon.
- Truck-trailer repair trade certification is compulsory in Ontario and available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, British Columbia and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified truck-trailer repairers and truck and transport mechanics.

Additional information

- Red Seal trade certification allows for interprovincial mobility.
- With additional training, mobility is possible between automobile, truck and transport mechanics.
- With experience, mechanics and technicians in this unit group may progress to supervisory positions.
- Mechanical repairers employed in motor vehicle manufacturing may progress to motor vehicle mechanic positions through an apprenticeship program, or with experience, they may progress to supervisory positions in motor vehicle manufacturing.

Classified elsewhere

- *Heavy-Duty Equipment Mechanics* (7312)
- *Motor Vehicle Assemblers, Inspectors and Testers* (9482)
- *Motor Vehicle Body Repairers* (7322)
- Recreation vehicle service technician (in 7383 *Other Trades and Related Occupations*)
- Supervisors of automobile assembly metal repairers (in 9221 *Supervisors, Motor Vehicle Assembling*)
- Supervisors of motor vehicle mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7322 Motor Vehicle Body Repairers

Motor vehicle body repairers repair and restore damaged motor vehicle body parts and interior finishing. They are employed by automobile dealers, automobile body repair companies and automobile appraisal centres. This unit group also includes metal repairers who repair defective automobile body parts and damage to the bodies of newly assembled cars. They are employed by motor vehicle manufacturers.

Examples of titles classified in this unit group

autobody repairer
automotive body mechanic
automotive glass technician
automotive painter – motor vehicle repair
automotive painter apprentice
metal finisher – motor vehicle manufacturing
metal repairer – motor vehicle manufacturing
motor vehicle body repairer apprentice
motor vehicle body technician
painter – motor vehicle repair

Main duties

Workers in this unit group perform some or all of the following duties:

- Review damage report and estimates of repair cost and plan work to be performed
- Repair and replace front end components, body components, doors and frame and underbody components
- Hammer out dents, buckles and other defects using blocks and hammers
- Operate soldering equipment or use plastic filler to fill holes, dents and seams
- Remove damaged fenders, panels and grills using wrenches and cutting torch and bolt or weld replacement parts into place
- Straighten bent frames using frame and underbody pulling and anchoring equipment
- File, grind and sand repaired body surfaces using hand and power tools
- Apply primers and repaint surfaces using brush or spray guns
- Repair and replace glass components such as windshields, windows and sunroofs
- Repair or replace interior components, such as seat frame assembly, carpets and floorboard insulation
- Inspect repaired vehicles and test drive vehicles for proper handling.

Employment requirements

Motor vehicle body repairers

- Completion of secondary school is usually required.
- Completion of a three- to four-year motor vehicle body repair apprenticeship program

  or

  A combination of over three years of work experience in the motor vehicle body repair trade and completion of a high school or college automotive body repair program is usually required to be eligible for trade certification.
- Trade certification for motor vehicle body repair (metal and paint) is compulsory in Quebec, Ontario, Alberta and British Columbia and available, but voluntary, in all other provinces and territories.
- Interprovincial trade certification (Red Seal) is available to qualified motor vehicle body repairers (metal and paint).

Automotive painters

- Completion of a two- or three-year automotive painter apprenticeship program

  or

  A combination of one year of work experience in the automotive painter trade and completion of a high school or college automotive painting program is usually required for automotive painter trade certification.
- Trade certification is compulsory in Alberta and British Columbia and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan and the Northwest Territories

- Interprovincial trade certification (Red Seal) is also available to qualified automotive painters.

Automotive glass installers and repairers

- Completion of secondary school is usually required.
- Auto glass industry certification is usually required.
- Apprenticeship training for automotive glass technicians is available in British Columbia.

Metal repairers, motor vehicle manufacturing

- Completion of secondary school is usually required.
- One to two years of on-the-job training are provided.

Additional information

- Red Seal trade certification allows for interprovincial mobility of motor vehicle body repair and automotive painter tradespersons.
- With experience, motor vehicle body repair and automotive painter tradespersons may progress to supervisory positions.
- Metal repairers employed in motor vehicle manufacturing may progress to motor vehicle repairer positions through an apprenticeship program, or, with experience, they may progress to supervisory positions in motor vehicle manufacturing.

Classified elsewhere

- *Automotive Service Technicians, Truck Mechanics and Mechanical Repairers* (7321)
- Painters – motor vehicle manufacturing (in 9496 *Painters and Coaters – Industrial*)
- Supervisors of automobile manufacturing metal repairers (in 9221 *Supervisors, Motor Vehicle Assembling*)
- Supervisors of motor vehicle body repairers and automotive painters (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7331 Oil and Solid Fuel Heating Mechanics

Oil and solid fuel heating mechanics install and maintain oil, coal and wood heating systems in residential and commercial buildings. They are employed by heating systems installation and service companies.

Examples of titles classified in this unit group

heating system mechanic
heating technician
oil burner apprentice
oil burner installer
oil burner mechanic
oil burner mechanic apprentice
oil burner mechanic, residential
wood burner installer

Main duties

Oil and solid fuel heating mechanics perform some or all of the following duties:

- Read and interpret drawings or specifications to determine work to be performed
- Lay out oil burner heating system components and assemble components using hand and power tools
- Install oil burner components such as thermostats, motors, piping and safety devices, and connect to fuel supply, ventilation and electrical system
- Test installed unit and adjust controls for proper functioning
- Troubleshoot and repair malfunctioning oil burners, and their components and controls
- Install, maintain and repair coal and wood heating systems
- Perform scheduled maintenance service on oil and solid fuel heating systems.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program

  or

  A combination of over four years of work experience in the trade and some college or industry courses in heating systems installation and repair is usually required for trade certification.
- Trade certification is compulsory in Nova Scotia and Quebec and is available, but voluntary, in Newfoundland, Prince Edward Island, New Brunswick, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is also available to qualified oil burner mechanics.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Refrigeration and Air Conditioning Mechanics* (7313)
- Servicers of natural gas furnaces (in 7253 *Gas Fitters*)
- Supervisors of oil and solid fuel heating mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7332 Electric Appliance Servicers and Repairers

Electric appliance servicers and repairers service and repair domestic electrical appliances. They are employed by repair shops, appliance service companies and repair departments of retail and wholesale establishments.

Examples of titles classified in this unit group

appliance repairer apprentice
appliance service technician
appliance service technician apprentice
appliance servicer
dishwasher repairer
refrigerator repairer
service technician – electrical appliances
stove repairer
vacuum cleaner repairer
washing machine servicer

Main duties

Small appliance repairers perform some or all of the following duties:

- Repair small appliances, such as electrical lawn and garden equipment and power tools
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Observe operation of appliance and conduct voltage, resistance and other tests using electrical test equipment
- Refer to schematic drawings or product manuals and replace or repair parts or components using hand tools and soldering equipment
- Prepare estimates and written accounts of work performed.

Major appliance repairers/technicians perform some or all of the following duties:

- Repair major appliances, such as domestic refrigerators and window air conditioners, in customer's home during service calls or in repair shop
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Diagnose faults by checking controls, condensers, timer sequences, fans and other components using test equipment such as meters and gauges to measure resistance, current, voltage and pressure
- Refer to schematic diagrams or product manuals and disassemble appliance using hand tools
- Replace components and subcomponents and reassemble appliance using hand tools and soldering and brazing equipment
- Prepare estimates and written accounts of work performed
- Plan service routes.

Employment requirements

- Small appliance repairers usually require some specialized college or high school courses or several months of on-the-job training.
- Major appliance service/repair technicians require some secondary school education and completion of a college program in appliance repair
  or
  Completion of a three- or four-year apprenticeship program in appliance repair.
- Appliance service technician trade certification is compulsory in Alberta and available, but voluntary, in Newfoundland, Nova Scotia New Brunswick, Prince Edward Island, British Columbia and the Northwest Territories.
- Interprovincial trade certification (Red Seal) is available to qualified appliance service technicians.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- *Electronic Service Technicians* (*Household and Business Equipment*) (2242)
- Supervisors of electrical appliance servicers and repairers (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7333 Electrical Mechanics

Electrical mechanics maintain, test, rebuild and repair electric motors, transformers, switchgear and other electrical apparatus. They are employed by independent electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies.

Examples of titles classified in this unit group

armature winder repairer
coil winder and repairer
electrical mechanic
electrical mechanic apprentice
electric motor system technician
electrical rewind mechanic
electrical transformer repairer
industrial motor winder-repairer
power transformer repairer
transformer repairer

Main duties

Electrical mechanics perform some or all of the following duties:

- Test and observe electrical, electronic and mechanical components and systems using testing and measuring instruments
- Troubleshoot and repair electric motors, transformers, switchgear, generators and other electro-mechanical equipment
- Replace or recondition shafts, bearings, commutators and other components
- Wind, assemble and install various types of coils for electric motors or transformer
- Perform static or dynamic balancing of armatures or rotors by welding, brazing or soldering electrical connections and by aligning and adjusting parts
- Test and repair or replace faulty wiring or components in electrical switchgear
- Test repaired motors, transformers, switchgear or other electrical apparatus to ensure proper performance
- Perform some machining to recondition or modify shafts, commutators or other parts
- Perform on-site servicing and repair.

Electrical mechanics may specialize in working with certain types of apparatus, such as electric motors or transformers, or in performing certain functions, such as winding coils.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program
  or
  A combination of over four years of work experience in the trade and some college or industry courses in electrical mechanics is usually required for trade certification.
- Trade certification as an electrical rewind mechanic is available, but voluntary, in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Alberta, British Columbia, the Northwest Territories and the Yukon.
- Interprovincial trade certification (Red Seal) is available to qualified electric motor system technicians.

Additional information

- Although specialization may occur, workers in this unit group are expected to be proficient in repairing all electrical apparatus.
- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for interprovincial mobility.

Classified elsewhere

- Aircraft electrical mechanics (in 2244 *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors*)
- *Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers* (9485)
- *Industrial Electricians* (7242)
- Supervisors of electrical mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7334 Motorcycle and Other Related Mechanics

Mechanics in this unit group test, repair and service motorcycles, motor scooters, snowmobiles, forklifts and all-terrain vehicles. They are employed by service shops of motorcycle dealers and retailers and by independent service establishments.

Examples of titles classified in this unit group

all-terrain vehicle repairer
forklift mechanic
industrial truck repairer
motorcycle mechanic
motorcycle mechanic apprentice
motor scooter repairer
snowmobile repairer

Main duties

Mechanics in this unit group perform some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engine and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired systems for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Determine estimates of repair cost
- May repair and rebuild hoisting mechanism and other mechanical systems on industrial trucks and forklifts.

Employment requirements

- Completion of secondary school is usually required.
- For motorcycle mechanics, completion of a three- to four-year apprenticeship program
  or
  A combination of over three years of work experience in the trade and some high school or college courses in motorcycle repair is usually required to be eligible for trade certification.
- Motorcycle mechanic trade certification is compulsory in Ontario and Alberta and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick and British Columbia.
- Other mechanics in this unit group may require several years of on-the-job training.
- Interprovincial trade certification (Red Seal) is also available for qualified motorcycle mechanics.

Additional information

- Progression to supervisory positions is possible with experience.
- There is mobility between some occupations in this unit group.
- Red Seal certification allows for interprovincial mobility.

Classified elsewhere

- *Other Small Engine and Equipment Mechanics* (7335)
- Supervisors of motorcycle and related equipment mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7335 Other Small Engine and Equipment Mechanics

Mechanics in this unit group test, repair and service small gasoline and diesel-powered equipment, such as garden tractors, outboard motors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments.

Examples of titles classified in this unit group

air-cooled engine mechanic
lawn and garden equipment technician
lawn mower repairer, gasoline powered
motor boat mechanic
outboard motor mechanic
small engine technician
small equipment mechanic apprentice
small equipment repairer

Main duties

Mechanics in this unit group perform some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engine, motors and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired equipment for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Determine estimates of repair cost.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program in small engine or equipment repair
  or
  A combination of several years of work experience in the trade and some high school
  or
  College courses in small engine or equipment repair are usually required for trade certification.
- Small engine or equipment mechanic trade certification is available, but voluntary, in Newfoundland, Prince Edward Island, New Brunswick, Ontario, British Columbia and the Northwest Territories.
- Inboard/outboard mechanic trade certification is available, but voluntary, in Ontario and British Columbia.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Motorcycle and Other Related Mechanics* (7334)
- Supervisors of small engine and equipment mechanics (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7341 Upholsterers

Upholsterers cover furniture, fixtures and similar items with fabric, leather or other upholstery materials. They are employed by furniture, aircraft, motor vehicle and other manufacturing companies, furniture retail outlets and repair shops or they may be self-employed.

Examples of titles classified in this unit group

aircraft interior technician
automobile upholsterer
custom upholsterer
furniture upholsterer
upholsterer
upholstery repairer

Main duties

Upholsterers perform some or all of the following duties:

- Discuss upholstery fabric, colour, and style with customers and provide cost estimate for upholstering furniture or other items
- Lay out, measure and cut upholstery materials according to sketches or design specifications
- Replace worn-out webbing, springs and other furniture parts using hand and power tools
- Operate sewing machines or sew upholstery materials by hand to seam cushions and join sections of covering materials
- Install padding and underlays and fasten covering materials to furniture frames
- Tack, glue or sew ornamental trim, braids or buttons on upholstered items
- Lay out, cut, fabricate and install upholstery in aircrafts, motor vehicles, railway cars, boats and ships
- May repair furniture frames and refinish wood surfaces
- May make upholstery patterns from sketches, customer descriptions or blueprints
- May install, fabricate, maintain and repair interior components of aircraft, such as seats, coverings, drapes, cargo nets, flooring, closets, bins and panels.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other specialized courses or an apprenticeship program in furniture upholstering and repair
  or
  Several years of on-the-job training, including working as an upholsterer helper are usually required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Furniture and Fixture Assemblers and Inspectors* (9492)
- *Furniture Finishers and Refinishers* (9494)
- Supervisors of upholsterers in furniture manufacturing (in 9224 *Supervisors, Furniture and Fixtures Manufacturing*)
- Upholsterer helpers (in 9619 *Other Labourers in Processing, Manufacturing and Utilities*)

7342 Tailors, Dressmakers, Furriers and Milliners

Tailors, dressmakers and furriers make, alter and repair tailored clothing, dresses, coats and other made-to-measure garments. Milliners make, alter and repair hats. This unit group also includes alterationists who fit, alter and repair garments. They are employed by clothing retailers, clothing alteration shops, dry cleaners and garment manufacturing companies or they may be self-employed.

Examples of titles classified in this unit group

alterationist, garments
custom furrier
custom tailor
dressmaker
furrier
milliner
seamstress
tailor

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Tailors make made-to-measure garments, such as suits and coats according to customers' and clothing manufacturers' specifications and fit; design patterns to fit measurements; mark, cut and sew fabric; and may alter and repair garments as required.
- Dressmakers make women's garments; select and modify commercial patterns to customers' and clothing manufacturers' specifications and fit, mark, cut and sew fabric; and may alter and repair garments as required.
- Furriers make, alter, restyle and repair natural fur garments and accessories.
- Milliners design, lay out, cut, sew and press fabric, leather and other materials into hats and related accessories.
- Alterationists fit, alter and repair garments according to customers' requests by hand or using sewing machines.

Employment requirements

- Completion of secondary school may be required.
- Tailors and dressmakers require demonstrated ability to sew, style and fit men's or women's garments and may require completion of college or other courses in tailoring or dressmaking.
- Furriers require several years of experience in selecting pelts and making, fitting, styling and altering fur garments and accessories.
- Milliners require demonstrated ability to sew, style and fit hats and caps.
- Alterationists require demonstrated ability to sew, alter and repair garments.

Classified elsewhere

- Couturier – haute couture (in 5243 *Theatre, Fashion, Exhibit and Other Creative Designers*)
- *Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing* (945)

7343 Shoe Repairers and Shoemakers

Shoe repairers repair footwear and shoemakers make specialized and custom shoes and boots. They are employed in shoe repair shops or custom shoemaking establishments, or they may be self-employed.

Examples of titles classified in this unit group

bootmaker
custom shoemaker
orthopaedic shoemaker
shoe repairer
shoemaker

Main duties

Shoemakers perform some or all of the following duties:

- Discuss type of footwear to be made and obtain measurements from customer
- Select patterns and leather or other material and outline and cut patterns
- Select or assemble lasts, fasten insoles to lasts and sew or glue other parts into place
- Trim, dress and otherwise finish boots or shoes
- Estimate custom footwear costs and receive payment from customers
- May supervise other shoemakers and shoe repairers.

Shoe repairers perform some or all of the following duties:

- Repair soles, heels and other parts of footwear using sewing, buffing and other shoe repair machines, materials and equipment
- Repair belts, luggage, purses and similar products
- Estimate footwear repair costs and take payment.

Employment requirements

- Some secondary school may be required.
- Several months of on-the-job training is provided for shoe repairers.
- Extensive on-the-job training is provided for shoemakers.
- Shoemakers may require experience as shoe repairers.

Additional information

- Shoe repairers may progress to shoemakers with experience.

Classified elsewhere

- Labourers in shoe manufacturing (in 9619 *Other Labourers in Processing, Manufacturing and Utilities*)
- Workers who cut fabric or leather to form shoe parts on a production basis (in 9452 *Fabric, Fur and Leather Cutters*)
- Workers who operate sewing machines to make shoes on a production basis (in 9451 *Sewing Machine Operators*)

7344 Jewellers, Watch Repairers and Related Occupations

Jewellers and related workers in this unit group fabricate, assemble, repair and appraise fine jewellery. Watch repairers and related workers in this unit group repair, clean, adjust and fabricate parts for clocks and watches. They are employed by jewellery, clock and watch manufacturers and retail stores, by jewellery and watch repair shops or they may be self-employed.

Examples of titles classified in this unit group

clock repairer
diamond cutter
gem cutter
gemologist
pearl cutter
precious stone setter
watch repairer
watchmaker

Main duties

Jewellers and related workers perform some or all of the following duties:

- Fabricate and repair precious and semi-precious metal jewellery, such as rings, brooches, pendants, bracelets and lockets
- Examine, cut, shape and polish diamonds using optical instruments, lathes and laps
- Examine, cut, shape and polish precious and synthetic gems using optical instruments, cutting disks and laps
- Appraise gemstones and diamonds to differentiate between stones, identify rare specimens and to detect peculiarity affecting stone values
- Set precious and semi-precious stones in jewellery mountings, according to specifications
- May supervise other jewellers.

Jewellers may specialize in certain kinds of jewellery, such as gold or silver, or in particular operations, such as fabrication or repair.

Watch repairers perform some or all of the following duties:

- Fabricate or fit parts to make watches and clocks
- Examine clocks and watches, disassemble and check for defective and misaligned parts or rust
- Replace or repair worn or broken parts
- Test, adjust and regulate timepiece movements
- Clean all parts using special cleaning and rinsing solutions and ultrasonic or mechanical cleaning machines to remove dirt and dried lubricants
- May supervise other watch repairers.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college or other program, or apprenticeship training in watch or jewellery repair or gemology is usually required.
- A watch repairer certificate is compulsory in Quebec and Ontario.
- Experience as a jewellery, clock or watch assembler may be required.

Additional information

- Mobility is possible among the various jewellery occupations in this unit group.
- There is little mobility between the jewellery occupations and the watch repairers in this unit group.

Classified elsewhere

- Jewellery and clock and watch production assemblers (in 9498 *Other Assemblers and Inspectors*)
- Silversmiths and jewellery artisans (in 5244 *Artisans and Craftspersons*)

7351 Stationary Engineers and Auxiliary Equipment Operators

Stationary engineers and auxiliary equipment operators operate and maintain various types of stationary engines and auxiliary equipment to provide heat, light, power and other utility services for commercial, industrial and institutional buildings and other work sites. They are employed in industrial and manufacturing plants, hospitals, universities, government, utilities, hotels and other commercial establishments.

Examples of titles classified in this unit group

auxiliary plant operator
boiler operator
power engineer
power engineer apprentice
stationary engineer
stationary engineer apprentice
steam plant operator

Main duties

Stationary engineers and auxiliary equipment operators perform some or all of the following duties:

- Operate automated or computerized control systems, stationary engines and auxiliary equipment such as boilers, turbines, generators, pumps, compressors, pollution control devices and other equipment to provide heat, ventilation, refrigeration, light and power for buildings, industrial plants and other work sites
- Monitor and inspect plant equipment, computer terminals, switches, valves, gauges, alarms, meters and other instruments to measure temperature, pressure and fuel flow, to detect leaks or other equipment malfunctions and to ensure plant equipment is operating at maximum efficiency
- Analyze and record instrument readings and equipment malfunctions
- Troubleshoot and perform corrective action and minor repairs to prevent equipment or system failure
- Clean and lubricate generators, turbines, pumps and compressors and perform other routine equipment maintenance duties using appropriate lubricants and hand, power and precision tools
- Maintain a daily log of operation, maintenance and safety activities, and write reports about plant operation
- May assist in the development of operation, maintenance and safety procedures.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a regulated apprenticeship program in stationary or power engineering
  or
  On-the-job training and correspondence courses, high school courses or a college training program in stationary or power engineering is required.
- Provincial or territorial certification or licensing according to class (4th, 3rd, 2nd and 1st class and an additional 5th class in Manitoba, Saskatchewan and the Northwest Territories) is required.

Additional information

- Progression from lower to higher classes for stationary or power engineers is dependent on further training and experience.

Classified elsewhere

- *Power Systems and Power Station Operators* (7352)
- Professional engineers (in 213 *Civil, Mechanical, Electrical and Chemical Engineers* and 214 *Other Engineers*)
- Supervisors of stationary engineers and auxiliary equipment operators (in 9212 *Supervisors, Petroleum, Gas and Chemical Processing and Utilities*)

7352 Power Systems and Power Station Operators

Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. Power station operators operate reactors, turbines, boilers, generators and other related equipment in electrical generating stations and substations. They are employed by electric power utilities and by some large manufacturing facilities.

Examples of titles classified in this unit group

apprentice power dispatcher
chief operator, area dispatch
diesel station operator
distribution control operator
generating station operator
nuclear reactor operator
power dispatcher
power plant operator
power system operator

Main duties

Power systems operators perform some or all of the following duties:

- Monitor and operate computerized switchboards and auxiliary equipment in electrical control centres to control the distribution and to regulate the flow of electrical power in the transmission network
- Co-ordinate, schedule and direct generating station and substation power loads and line voltages to meet distribution demands during daily operations, system outages, repairs and importing or exporting of power
- Monitor and visually inspect station instruments, meters and alarms to ensure transmission voltages and line loadings are within prescribed limits and to detect equipment failure, line disturbances and outages
- Issue work and test permits to electrical and mechanical maintenance personnel, and assist maintenance and technical personnel to locate and isolate system problems and assist during routine system testing
- Complete and maintain station records, logs and reports.

Power station operators perform some or all of the following duties:

- Operate reactors, turbines, boilers, generators, condensers and auxiliary equipment in hydro, thermal and nuclear power plants to generate electrical power
- Start up and shut down power plant equipment, control switching operations, regulate water levels and communicate with systems operators to regulate and co-ordinate transmission loads, frequency and line voltages
- Monitor and visually inspect power plant equipment and equipment indicators to detect operating problems and make adjustments or minor repairs as required
- Complete and maintain station records, logs and reports.

Employment requirements

- Completion of secondary school is required for power systems and power station operators.
- Power systems operators require completion of a three- to five-year power system operator apprenticeship program
  or
  Over three years of work experience in the trade and some college or industry courses in electrical and electronic technology.
- Trade certification is available, but voluntary for power system operators in Newfoundland and New Brunswick.
- Power station operators require an apprenticeship program in stationary or power engineering
  or
  Several years of work experience in the trade and some high school, correspondence or college courses in stationary or power engineering.

- Power station operators require a provincial or territorial power engineering or stationary engineering certificate according to class.
- Control room operators at nuclear power plants require licensing from the Canadian Nuclear Safety Commission.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Stationary Engineers and Auxiliary Equipment Operators* (7351)
- Supervisors of power system and power station operators (in 9212 *Supervisors, Petroleum, Gas and Chemical Processing and Utilities*)

7361 Railway and Yard Locomotive Engineers

Railway locomotive engineers operate railway locomotives to transport passengers and freight. They are employed by railway transport companies. Yard locomotive engineers operate locomotives within yards of railway, industrial or other establishments. They are employed by railway transport companies and industrial or commercial users of rail transport.

Examples of titles classified in this unit group

locomotive engineer – railway
railway engineer
railway hostler
switch engineer
yard engineer – railway

Main duties

Railway locomotive engineers perform some or all of the following duties:

- Operate locomotives to transport passengers and freight on railways
- Operate communication systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains
- Inspect assigned locomotives and test operating controls and equipment.

Yard locomotive engineers perform some or all of the following duties:

- Operate locomotives to switch, couple and uncouple cars for loading and unloading
- Perform switching operations according to written switching orders or dispatched instructions
- Inspect locomotives, replenish fuel or perform routine maintenance on locomotives.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a conductor is required for railway locomotive engineers and may be required for yard locomotive engineers.
- Experience as a railway yard worker may be required for yard locomotive engineers.
- Level "A" Certificate of the Canadian Rail Operating Rules is required for railway locomotive engineers.

Additional information

- Mobility between railway transport companies or between establishments employing locomotive engineers may be limited due to seniority provisions of collective agreements.

Classified elsewhere

- Subway and light rail transit operators (in 7412 *Bus Drivers and Subway and Other Transit Operators*)
- *Supervisors, Railway Transport Operations* (7221)
- Train dispatchers (in 2275 *Railway Traffic Controllers and Marine Traffic Regulators*)

7362 Railway Conductors and Brakemen/women

Railway conductors co-ordinate and supervise the activities of passenger and freight train crew members. Brakemen check train brakes and other systems and equipment prior to train run, and assist railway conductors in activities en route. They are employed by railway transport companies.

Examples of titles classified in this unit group

brakeman/woman
freight train conductor
front-end brakeman/woman
passenger train conductor
railway conductor
road freight brakeman/woman
tail-end brakeman/woman
train conductor

Main duties

Railway conductors perform some or all of the following duties:

- Supervise and co-ordinate the activities of passenger and freight train crew members (except locomotive engineers) to ensure train operations are in accordance with schedule, train orders and code of operating rules
- Receive train orders and explain orders to brakemen/women, locomotive engineer and other crew members
- Communicate with train crew members by radio, signals or by other means to give and receive train operation information
- Collect fares on board passenger trains, announce approaching train stops and answer passenger enquiries
- Prepare train run reports.

Brakemen/women perform some or all of the following duties:

- Check train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run
- Communicate with train crew members by radio, signals or by other means to aid in the movement and operation of train
- Receive orders from traffic controllers, observe signals and track conditions and open and close track switches
- Set and release hand brakes and connect air brake hoses to couple and switch passenger or freight cars, making minor repairs to couplings, air hoses and wheel-bearing boxes as required
- Assist in collecting fares and helping passengers on and off train.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a brakeman/woman is required for conductors.
- Experience as a railway worker is usually required for brakemen/women.
- Level "A" Certificate of the Canadian Rail Operating Rules is required for railway conductors.
- Level "B" Certificate of the Canadian Rail Operating Rules is required for brakemen/women.

Additional information

- With experience, brakemen/women may progress to railway conductors.
- With experience, railway conductors may progress to locomotive engineers.

Classified elsewhere

- *Railway and Yard Locomotive Engineers* (7361)
- *Supervisors, Railway Transport Operations* (7221)

7371 Crane Operators

Crane operators operate cranes or draglines to lift, move, position or place machinery, equipment and other large objects at construction or industrial sites, ports, railway yards, surface mines and other similar locations. They are employed by construction, industrial, mining, cargo handling and railway companies.

Examples of titles classified in this unit group

boom truck crane operator
bridge crane operator
climbing crane operator
construction crane operator
crane operator
dragline crane operator
gantry crane operator
hoist operator (except underground mining)
mobile crane operator
tower crane operator
tractor crane operator

Main duties

Crane operators perform some or all of the following duties:

- Operate mobile and tower cranes to lift, move, position or place equipment and materials
- Perform pre-operational inspection, and calculate crane capacities and weight to prepare for rigging and hoisting
- Operate pile driving cranes to drive pilings into earth to provide support for buildings and other structures
- Operate cranes equipped with dredging attachments to dredge waterways and other areas
- Operate gantry cranes to load and unload ship cargo at port side
- Operate locomotive cranes to move objects and materials at railway yards
- Operate bridge or overhead cranes to lift, move and place plant machinery and materials
- Operate offshore oil rig cranes to unload and reload supply vessels
- Operate cranes mounted on boats or barges to lift, move and place equipment and materials
- Operate dragline cranes to expose coal seams and ore deposits at open pit mines
- May assemble tower cranes on site
- Perform routine maintenance work such as cleaning and lubricating cranes.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- to three-year apprenticeship program

  or

  High school, college or industry courses in crane operating are usually required.
- Trade certification as a hoist operator is compulsory in Quebec and available, but voluntary, in Saskatchewan.
- Boom truck crane operator trade certification is compulsory in Manitoba and Alberta and available, but voluntary, in Saskatchewan, British Columbia and the Northwest Territories.
- Mobile crane operator (8-15 tons) trade certification is compulsory in Ontario and, available, but voluntary, in New Brunswick.
- Tower crane operator trade certification is compulsory in Ontario, Manitoba and Alberta, and is available, but voluntary, in Newfoundland, Saskatchewan and British Columbia.
- Trade certification as a hoist operator (hydraulic crane) is available, but voluntary, in Saskatchewan and British Columbia.
- Mobile crane operator trade certification is compulsory in Quebec, Ontario, Manitoba and Alberta and available, but voluntary, in all other provinces and the Northwest Territories.
- Mobile crane operators may require a provincial licence to drive mobile cranes on public roads.

- Internal company certification as a crane operator may be required by some employers.
- Interprovincial trade certification (Red Seal) is also available to mobile crane operators.

Additional information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification for mobile crane operators allows for interprovincial mobility.

Classified elsewhere

- *Heavy Equipment Operators (Except Crane)* (7421)
- Hoist operator – underground mining (in 8231 *Underground Mine Service and Support Workers*)
- Supervisors of crane operators (in 7271 *Contractors and Supervisors, Heavy Construction Equipment Crews*)

7372 Drillers and Blasters – Surface Mining, Quarrying and Construction

Drillers in this unit group operate mobile drilling machines to bore blast holes in open-pit mines and quarries and to bore holes for blasting and for building foundations at construction sites. Blasters in this unit group fill blast holes with explosives and detonate explosives to dislodge coal, ore and rock or to demolish structures. They are employed by mining, quarrying and construction companies and by drilling and blasting contractors.

Examples of titles classified in this unit group

blaster, construction
blaster – surface mining
driller, construction
foundation drill operator
open-pit blaster
open-pit driller
rotary drilling machine operator

Main duties

Drillers in this unit group perform some or all of the following duties:

- Drive and operate tracked or truck-mounted rotary drilling, air-track or other drilling machines to bore large blast holes to specified depths at staked positions in open-pit mine or quarry
- Operate drilling machines to drill blast holes in rock at road or other construction sites
- Operate tracked or truck mounted drill equipped with auger or other attachment to drill holes for building foundations or pilings
- May measure location and stake out pattern of holes to be drilled, load blast holes with explosives and detonate explosives to dislodge coal, ore or rock.

Blasters in this unit group perform some or all of the following duties:

- Read instructions or diagrams, lay out drill pattern and determine depth and diameter of blast holes and conduct field tests to determine the type and quantity of explosives required
- Assemble or direct other workers to assemble primer charges using selected detonators, fuses detonating cords and other materials
- Load explosives in blast holes by hand or direct the movement of bulk explosives trucks to lead holes
- Connect electrical wires, detonating cords or fuses into series and connect series to blasting machines; press handle or button to detonate charges
- Handle, store and transport explosives and accessories in accordance with regulations and ensure that safety procedures are observed
- May operate air-track, rotary, down-the-hole or other drilling machines to drill blast holes or may direct drilling of blast holes.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Experience as a heavy equipment operator may be required for drillers.
- Experience as a blaster helper in surface mining and quarrying or construction may be required for blasters.
- Provincial blasting licence is usually required for blasters.
- Trade certification for blasters is available, but voluntary, in New Brunswick.

Additional information

- Progression to supervisory positions is possible with experience.
- Drillers and blasters often perform both drilling and blasting activities.

7372 Drillers and Blasters – Surface Mining, Quarrying and Construction

Classified elsewhere

- Oil and gas well drillers (in 8232 *Oil and Gas Well Drillers, Servicers, Testers, and Related Workers*)
- Supervisors of construction drillers and blasters (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)
- Supervisors of surface mining drillers and blasters (in 8221 *Supervisors, Mining and Quarrying*)
- Underground mine drillers and blasters (in 8231 *Underground Production and Development Miners*)
- *Water Well Drillers* (7373)

7373 Water Well Drillers

Water well drillers operate a variety of mobile water well drilling rigs and equipment to drill and monitor residential, commercial and industrial water wells. They are employed by water well drilling contractors and governments, or they may be self-employed.

Examples of titles classified in this unit group

cable tool driller – water well
churn drill operator – water well
water well driller
water well driller apprentice

Main duties

Water well drillers perform some or all of the following duties:

- Review client requirements and proposed locations for water wells
- Operate water well drilling rigs and other equipment to drill, bore and dig for residential, commercial and industrial water wells or environmental assessment, and install well screens, casings and other well fixtures
- Document geological formations encountered
- Clean and disinfect wells in preparation for use
- Perform routine mechanical maintenance work on water well drilling rigs and equipment
- Install, test, maintain and repair water well pumps, piping systems and equipment and perform pumping tests to assess well performance
- May provide other drilling services, such as repair or dismantling of existing water well structure, elevator shaft drilling and hydro pole drilling.

Water well drillers may specialize in a specific method of drilling, such as cable, rotary, auger, hammer or reverse circulation drilling.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year water well drilling apprenticeship program
  or
  Two to three years of work experience in the trade combined with college or industry courses in water well drilling is usually required to be eligible for trade certification.
- Trade certification is available, but voluntary, in New Brunswick, Saskatchewan, Alberta and British Columbia.

Additional information

- Mobility is possible among the various well drilling operators in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Drillers – underground mining (in 8231 *Underground Production and Development Miners*)
- *Oil and Gas Well Drillers, Servicers, Testers and Related Workers* (8232)
- Surface mining, quarrying and construction drillers (in 7372 *Drillers and Blasters – Surface Mining, Quarrying and Construction*)
- Water well drilling contractors and supervisors of water well drillers (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)

7381 Printing Press Operators

Printing press operators set up and operate sheet and web-fed presses to print illustrations, designs and text on paper, plastic, sheet metal and other material. They are employed by commercial printing companies; newspapers, magazines, and other publishing companies and establishments in the public and private sectors that have in-house printing departments.

Examples of titles classified in this unit group

apprentice pressman/woman
assistant pressman/woman
first pressman/woman
flexographic press operator
offset press operator
printing press operator
rotogravure pressman/woman – printing

Main duties

Printing press operators perform some or all of the following duties:

- Review job orders to determine job specifications such as production time, colour sequence and quantities required, and advise press crew of these specifications
- Mount plates or cylinders and make necessary adjustments
- Fill ink fountains and make measurements, adjustments and settings to control colour and viscosity
- Set up press and check samples for ink coverage, alignment and registration
- Monitor regular press run for quality consistency using computer control console and make adjustments if required
- Remove and clean plates and cylinders at end of press run
- Set up and adjust in-line binding and finishing equipment
- Direct activities of press crew and ensure that safety procedures are adhered to.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in printing technology

  or

  A four-year apprenticeship program in printing

  or

  A combination of on-the-job training and specialized high school, college or industry courses is usually required.
- Trade certification is available, but voluntary, in Ontario, Alberta and the Northwest Territories.

Additional information

- Progression to supervisory positions, such as pressroom supervisor, is possible with experience.

Classified elsewhere

- Operators of laser printers, colour and large copier and printing machines (in 9471 *Printing Machine Operators*)
- Screen printing artisans (in 5244 *Artisans and Craftspersons*)
- *Supervisors, Printing and Related Occupations* (7218)
- Textile printers (in 9443 *Textile Dyeing and Finishing Machine Operators*)

7382 Commercial Divers

Commercial divers perform underwater activities related to construction, inspection, search, salvage, repair and photography. They are employed by commercial diving contractors, shipping and marine construction companies, and oil and gas companies with offshore operations.

Examples of titles classified in this unit group

commercial diver
diver
offshore diver
skin diver, commercial
underwater contractor
underwater welder
underwater worker

Main duties

Commercial divers perform some or all of the following duties:

- Perform offshore oil and gas exploration and extraction duties such as underwater surveys, nondestructive testing, blasting, construction, and repair and maintenance of drill rigs and platforms
- Operate underwater video, sonar, recording and related equipment for scientific or exploratory purposes
- Inspect vessels, buoyage systems, pipelines, sluice gates, plant intakes and outfalls and other materials, visually and by nondestructive testing
- Perform construction duties such as welding and installing pilings for cofferdams or footings for piers, and maintain these and drydocks, breakwaters, marine ways and bridge foundations using hand and power tools and pneumatic equipment
- Operate winches, derricks or cranes to manipulate cables and chains to raise sunken objects
- Set up and detonate explosives to remove obstructions and break up or refloat submerged objects
- Participate in underwater search and rescue, salvage, recovery and clean up operations
- Check and maintain diving equipment such as helmets, masks, air tanks, harnesses, gauges, air compressors, diving suits, underwater cutting torches and welding equipment
- May supervise and train other divers.

Employment requirements

- Completion of secondary school education is usually required.
- Completion of a recognized commercial diving school program is required.
- Military or police diving experience may be required.
- A Category I commercial diver's National Energy Board (NEB) certification or its provincial equivalent is required.
- A provincial blaster's licence is usually required for the setting and detonation of explosives.
- A diving medical from an approved hyperbaric physician is required.

Classified elsewhere

- Police divers (in 6261 *Police Officers (Except Commissioned)*)
- *Welders and Related Machine Operators* (7265)

7383 Other Trades and Related Occupations

This unit group includes tradespersons and related skilled workers, not elsewhere classified, who repair, service, install, calibrate or fabricate a variety of products. They are employed by a wide range of establishments, or they may be self-employed.

Examples of titles classified in this unit group

aircraft patternmaker
farrier
gunsmith
locksmith
recreation vehicle technician
safe and vault servicer
saw fitter
small arms repairer
template maker

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Gunsmiths fabricate guns and repair and modify firearms according to blueprints or customers' specifications.
- Locksmiths repair, install and adjust locks, make keys and change lock combinations.
- Recreation vehicle technicians repair or replace electrical wiring, plumbing, propane gas lines, appliances, windows, doors, cabinets and structural frames in recreational vehicles.
- Safe and vault servicers install, repair and maintain safes and vaults in banks and other establishments.
- Saw fitters repair, set and sharpen bandsaws, chainsaws, circular saws and other types of saw blades according to specifications.

Employment requirements

- Completion of secondary school is usually required.
- Completion of two- to four-year apprenticeship program in a relevant trade, such as locksmith, recreation vehicle technician or sawfitting

  or

  College, high school or industry courses combined with several years of related work experience

  or

  Several years of on-the-job training are required.
- Trade certification for locksmiths is available, but voluntary, in Nova Scotia, Saskatchewan, Alberta, British Columbia and the Northwest Territories.
- Trade certification for recreation vehicle technicians is compulsory in Alberta and available, but voluntary, in Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Quebec, British Columbia and Yukon.
- Trade certification for sawfitters is available, but voluntary, in Alberta, British Columbia and the Yukon.
- Provincial trade certification or licence may be required for other occupations in this unit group.
- Interprovincial trade certification (Red Seal) is also available to qualified recreation vehicle service technicians.

7383 Other Trades and Related Occupations

Additional information

- There is little or no mobility among occupations in this unit group.
- Progression to supervisory positions is possible with experience.
- Red Seal trade certification for recreation vehicle service technicians allows for interprovincial mobility.

Classified elsewhere

- *Automotive Service Technicians* (732)
- *Motorcycle and Other Related Mechanics* (7334)
- *Other Repairers and Servicers* (7445)
- *Other Small Engine and Equipment Mechanics* (7335)

7411 Truck Drivers

Truck drivers operate heavy trucks to transport goods and materials over urban, interurban, provincial and international routes. They are employed by transportation companies, manufacturing and distribution companies, moving companies and employment service agencies, or they may be self-employed.

Examples of titles classified in this unit group

bulk goods truck driver
dump truck driver
flatbed truck driver
logging truck driver
long haul truck driver
moving van driver
tow truck driver
truck driver
truck driver, heavy truck
truck driver, tractor-trailer

Main duties

Long-haul truck drivers perform some or all of the following duties:

- Operate and drive straight or articulated trucks, weighing over 4600 kg with three or more axles to transport goods and material to destinations
- Oversee all aspects of vehicles, such as condition of equipment, loading and unloading, and safety and security of cargo
- Perform pre-trip inspection of vehicle systems and equipment such as tires, lights, brakes and cold storage
- Perform emergency roadside repairs
- Obtain special permits and other documents required to transport cargo on international routes
- Record cargo information, distance travelled, fuel consumption and other information in log book or on on-board computer
- Communicate with dispatcher and other drivers using citizens' band (CB) radio, cellular telephone and on-board computer
- May drive as part of a two-person team or convoy
- May transport hazardous products or dangerous goods.

Line-haul and local truck drivers perform some or all of the following duties:

- Operate and drive straight trucks to transport goods and materials over urban and short inter-urban routes
- May drive lighter, special purpose trucks such as tow trucks, dump trucks, hydrovac trucks or cement mixing trucks
- Perform pre-trip inspection and oversee all aspects of vehicles such as condition of equipment, and loading and unloading of cargo.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- A Class-D licence is required to drive straight trucks.
- A Class-A licence is required to drive articulated trucks.
- Air brake endorsement (Z) is required for drivers who operate vehicles equipped with air brakes.
- Transportation of dangerous goods (TDG) certification is required for drivers who transport hazardous products or dangerous goods.

Additional information

- Progression to supervisory positions or to non-driving occupations, such as driver trainers, safety officers or truck dispatchers is possible with additional training or experience.

7411 Truck Drivers

Classified elsewhere

- Drivers of light trucks (in 7414 *Delivery and Courier Service Drivers*)
- Snowplough, and garbage truck drivers (in 7422 *Public Works Maintenance Equipment Operators*)
- *Supervisors, Motor Transport and Other Ground Transit Operators* (7222)
- Truck dispatchers (in 1475 *Dispatchers and Radio Operators*)
- Truck driver trainers (in 4131 *College and Other Vocational Instructors*)

7412 Bus Drivers and Subway and Other Transit Operators

This unit group includes workers who drive buses and operate streetcars, subway trains and light rail transit vehicles to transport passengers on established routes. Bus drivers are employed by urban transit systems, elementary and secondary schools and private transportation companies. Streetcar, subway and light rail transit operators are employed by urban transit systems.

Examples of titles classified in this unit group

bus driver
ground transportation driver
light rail transit operator
motor coach driver
school bus driver
sightseeing tour driver
streetcar operator
subway train operator
transit operator

Main duties

Bus and streetcar drivers perform some or all of the following duties:

- Drive buses or streetcars to transport passengers along established routes to local destinations
- Drive buses to transport passengers and goods to intercity or long distance destinations
- Drive sightseeing tour buses to transport passengers locally or over long distances, and may provide information on points of interest during trip
- Drive buses equipped for wheelchair accessibility, and aid passengers in boarding
- Provide passengers with information on fares, schedules and stops
- Collect fares, issue transfers, check bus passes and record transactions
- Report delays, mechanical problems and accidents
- May load and unload passengers' luggage.

School bus drivers perform some or all of the following duties:

- Drive school buses to transport children between school and home or on excursions
- Ensure children's safety when boarding and leaving buses and crossing street while bus is stopped.

Subway train and light rail transit operators perform some or all of the following duties:

- Operate subway or rail transit vehicles as part of two-person crew
- Observe signals at crossings and arrival and departure points
- Operate controls to open and close transit vehicle doors
- Report delays, malfunctions and accidents to control unit
- Direct passengers during emergency evacuation procedures.

Employment requirements

- Completion of secondary school may be required.
- Up to three months of on-the-job training, including classroom instruction, is usually provided for all occupations in this unit group.
- A minimum of one year of safe driving experience is required.
- Bus drivers require a Class B, C, E or F driver's licence in Ontario, and a Class 2 driver's licence elsewhere.
- An air brakes endorsement and first-aid certificate may be required.
- Experience as a public transit bus driver is usually required for subway and light rail transit operators.

Additional information

- Progression to transit supervisory or inspector positions is possible with experience.

Classified elsewhere

- Supervisors and inspectors of bus drivers, subway operators and other transit operators (in 7222 *Supervisors, Motor Transport and Other Ground Transit Operators*)

7413 Taxi and Limousine Drivers and Chauffeurs

Taxi and limousine drivers drive automobiles and limousines to transport passengers. Chauffeurs drive automobiles and limousines to transport personnel and visitors of businesses, government or other organizations or members of private households. Taxi and limousine drivers are employed by taxi and other transportation service companies, or they may be self-employed. Chauffeurs are employed by businesses, government and other organizations, or by private individuals or families.

Examples of titles classified in this unit group

airport limousine driver
chauffeur
limousine driver
taxi driver

Main duties

Taxi and limousine drivers perform some or all of the following duties:

- Pick up passengers and drive them to destinations in taxicabs or limousines
- Assist passengers with luggage and in boarding vehicles
- Collect flat-rate or taximeter fares
- Record transactions
- Maintain contact with taxi dispatch unit.

Chauffeurs perform some or all of the following duties:

- Pick up or meet employer according to request, appointment or schedule
- Drive employer to destinations in automobiles or limousines
- Perform business and personal errands for employer such as delivering and picking up mail, business documents and parcels
- Clean and make minor repairs to vehicle or take vehicle for servicing.

Employment requirements

- Some secondary school education is usually required.
- A minimum of one year of safe driving experience is usually required.
- A Class-G driver's licence is required in Ontario, and a Class-4 driver's licence elsewhere.
- Taxi and limousine drivers require good knowledge of the geographical area to be covered.
- Taxi drivers usually require a municipal permit.

Additional information

- Mobility from taxi or limousine driver to chauffeur is possible with experience.

Classified elsewhere

- *Supervisors, Motor Transport and Other Ground Transit Operators* (7222)
- Taxi dispatchers (in 1475 *Dispatchers and Radio Operators*)

7414 Delivery and Courier Service Drivers

Delivery and courier drivers drive automobiles, vans and light trucks to pick up and deliver various products. They are employed by dairies, drug stores, newspapers, take-out food establishments, dry cleaners, mobile caterers, courier and messenger service companies and many other establishments, or they may be self-employed.

Examples of titles classified in this unit group

bread deliverer
canteen driver
courier service driver
delivery driver
driver salesperson
dry cleaning driver
mail service courier
newspaper delivery driver
pizza delivery driver
route driver
vending machine driver-supplier

Main duties

Delivery drivers perform some or all of the following duties:

- Operate and drive automobiles, vans and light trucks to pick up and deliver various products, such as fast food, newspapers, magazines, bakery and dairy products, and items such as dry cleaning, envelopes, packages and parcels
- Perform pre-trip inspection of vehicle
- Sell products over established routes and accept or make payments for goods
- Record information on pick-ups and deliveries, vehicle mileage, fuel costs and any problems encountered
- May communicate with central dispatch using cellular telephone or citizens' band (CB) radio.

Employment requirements

- Completion of secondary school may be required.
- A driver's licence appropriate to the class of vehicle being driven is required.
- One year of safe driving experience is usually required.
- On-the-job training is provided.
- Eligibility for bonding and transportation of dangerous goods (TGD) certification may be required for courier drivers.

Additional information

- Progression to supervisory positions or to non-driving occupations, such as driver trainers or dispatchers is possible with additional training or experience.

Classified elsewhere

- *Couriers, Messengers and Door-to-door Distributors* (1463)
- Drivers of heavy trucks (in 7411 *Truck Drivers*)
- Garbage truck drivers (in 7422 *Public Works Maintenance Equipment Operators*)
- Supervisors of delivery drivers (in 7222 *Supervisors, Motor Transport and Other Ground Transit Operators*)

7421 Heavy Equipment Operators (Except Crane)

Heavy equipment operators operate heavy equipment used in the construction and maintenance of roads, bridges, airports, gas and oil pipelines, tunnels, buildings and other structures; in surface mining and quarrying activities; and in material handling work. They are employed by construction companies, heavy equipment contractors, public works departments and pipeline, logging, cargo-handling and other companies.

Examples of titles classified in this unit group

backhoe operator
bulldozer operator
excavator operator
gradall operator
grader operator
heavy equipment operator
heavy equipment operator apprentice
loader operator – construction
side boom tractor operator
surface mining equipment operator

Main duties

Heavy equipment operators perform some or all of the following duties:

- Operate heavy equipment such as backhoes, bulldozers, loaders and graders to excavate, move, load and grade earth, rock, gravel or other materials during construction and related activities
- Operate bulldozers or other heavy equipment to clear brush and stumps prior to logging activities and to build roads at logging and surface mining sites
- Operate heavy equipment with pile driver head to drive piling into earth to provide support for buildings, bridges or other structures
- Operate heavy dredging equipment to deepen waterways or reclaim earth fill
- Operate heavy paving and surfacing equipment to lay, spread or compact concrete, asphalt and other surface materials during highway and road construction
- Operate power shovels to excavate rock, ore or other materials from open-pit mines, strip mines, quarries or construction pits
- Operate heavy equipment to move, load and unload cargo
- Conduct pre-operational checks on equipment and clean, lubricate and refill equipment.

Employment requirements

- Some secondary school education is required.
- Completion of a one- to two-year apprenticeship program
  or
  Some high school, college or industry courses in heavy equipment operating combined with on-the-job training are required.
- Trade certification is compulsory in Quebec and available, but voluntary, in Newfoundland and the Northwest Territories.
- Internal company certification may be required by some employers.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Contractors and Supervisors, Heavy Construction Equipment Crews* (7217)
- *Crane Operators* (7371)
- Forklift and industrial truck operators (in 7452 *Material Handlers*)
- *Logging Machinery Operators* (8241)
- *Underground Production and Development Miners* (8231)

7422 Public Works Maintenance Equipment Operators

This unit group includes workers who operate vehicles and equipment to maintain streets, highways and sewer systems and operate garbage trucks to remove garbage and refuse. They are employed by municipal, provincial and federal public works departments and by private contractors under contract with government public works departments.

Examples of titles classified in this unit group

garbage truck driver
municipal maintenance equipment operator
public works maintenance equipment operator
salt truck operator
sand spreader operator
sanitation truck driver
sewer flushing truck operator
snow removal equipment operator – public works
street flusher operator
street sweeper operator

Main duties

Public works maintenance equipment operators perform some or all of the following duties:

- Operate garbage trucks to remove garbage and other refuse and dump loads at designated sites
- Operate street cleaning equipment such as street sweepers or other vehicles equipped with rotating brushes to remove sand, litter and trash
- Operate snowploughs or trucks fitted with plough blades to remove snow from streets, highways, parking lots and similar areas
- Operate sewer maintenance equipment such as rodders and sewer jet cleaners to maintain and repair sewer systems
- Operate trucks equipped with road sanding and other similar apparatus
- Check, lubricate, refuel and clean equipment and report any malfunctions to supervisor.

Employment requirements

- Some secondary school may be required.
- Experience as a public works labourer is usually required.
- On-the-job training is provided.
- A driver's licence appropriate to a specific type of equipment may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Heavy Equipment Operators (Except Crane)* (7421)
- *Public Works and Maintenance Labourers* (7621)
- Supervisors of public works maintenance equipment operators (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)
- *Truck Drivers* (7411)

7431 Railway Yard Workers

Railway yard workers regulate yard traffic, couple and uncouple trains and perform related yard activities. They are employed by railway transport companies.

Examples of titles classified in this unit group

car controller – railway
control tower operator – railway
signal tower operator – railway
switch tender – railway yard
towerman/woman – railway transport
yard coupler – railway
yard worker – railway

Main duties

Railway yard workers perform some or all of the following duties:

- Operate control panel switches from railway yard tower to set traffic signals and to activate train switches that regulate railway traffic in railway yards
- Operate car retarders, turntables and track switches to align locomotives and cars as required for coupling, uncoupling or servicing
- Switch cars according to instructions which indicate the location, disposition and number of cars
- Lubricate moving parts of railway cars and locomotives.

Employment requirements

- Some secondary school education is usually required.
- Experience as a railway labourer is required.
- Level "B" Certificate of the Canadian Rail Operating Rules is required.

Additional information

- On-the-job training is provided.
- Progression to a position such as brakeman is possible with experience.

Classified elsewhere

- *Railway and Motor Transport Labourers* (7622)
- *Railway Conductors and Brakemen/women* (7362)
- *Railway Track Maintenance Workers* (7432)
- Supervisors of railway yard workers (in 7221 *Supervisors, Railway Transport Operations*)

7432 Railway Track Maintenance Workers

Railway track Maintenance workers operate machines and equipment to lay, maintain and repair railway tracks. They are employed by railway transport companies.

Examples of titles classified in this unit group

ballast regulator operator, railway
equipment operator, railway
machine operator – railway
rail saw operator
section worker – railway
spike machine operator – railway
tie tamper operator – railway
track patroller, railway
trackman/woman, railway

Main duties

Railway track maintenance workers perform some or all of the following duties:

- Operate machines and equipment such as tie cutters, tie injectors, tie anchors, rail lifters, spike drivers, spike pullers, rail saws and tie cranes to lay, maintain and repair railway tracks
- Operate machines and equipment to align tracks, to transfer, spread, level and tamp ballast around ties and rails and to clear snow from tracks
- Clean and make minor repairs to machines and equipment
- Patrol assigned track sections to identify and report damaged or broken track
- Shovel ice and snow from track switch boxes
- Perform other track maintenance duties as directed.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.

Classified elsewhere

- *Railway and Motor Transport Labourers* (7622)
- *Railway Yard Workers* (7431)
- *Supervisors, Railway Transport Operations* (7221)

7433 Deck Crew, Water Transport

Workers in this unit group stand watch, operate and maintain deck equipment and perform other deck and bridge duties aboard ships or self-propelled vessels under the direction of deck officers. They are employed by marine transportation companies and federal government departments including the armed forces.

Examples of titles classified in this unit group

able seaman/woman
boatswain – military
deckhand
ordinary seaman/woman
tunnel operator, ship
wheelsman/woman

Main duties

Workers in this unit group perform some or all of the following duties:

- Stand watch and steer ship or self-propelled vessel under the direction of the officer on watch
- Operate, maintain and repair deck equipment such as winches, cranes, derricks and hawsers
- Clean, chip and paint deck surfaces
- Handle mooring lines, and splice and repair ropes, wire cables and cordage.

Employment requirements

- Some secondary school education is required.
- On-the-job training is provided.
- Senior positions in this unit group, such as able seaman/woman, require experience.

Additional information

- Training and testing for various endorsements and certification, including the Marine Emergency Duty (MED) certificate, occur following employment as a deck crew member.
- Progression to deck officer positions is possible with experience, additional training and deck officer certification by Transport Canada.

Classified elsewhere

- *Boat Operators* (7436)
- *Deck Officers, Water Transport* (2273)
- *Engineer Officers, Water Transport* (2274)
- *Engine Room Crew, Water Transport* (7434)
- *Fishing Vessel Deckhands* (8441)

7434 Engine Room Crew, Water Transport

Workers in this unit group assist ship engineer officers to operate, maintain and repair engines, machinery and auxiliary equipment aboard ships or self-propelled vessels. They are employed by marine transportation companies and federal government departments including the armed forces.

Examples of titles classified in this unit group

engine room crew, ship
greaser, engine room
marine engine oiler
marine engineering mechanic – military
ship boiler tender
ship stoker

Main duties

Workers in this unit group perform some or all of the following duties:

- Assist ship engineer officers in performing routine maintenance work and repair to ship's engine, machinery and auxiliary equipment
- Monitor engine, machinery and equipment indicators, record variables and report abnormalities to ship engineer officer on watch
- Lubricate moving parts of engines, machinery and auxiliary equipment
- Operate and maintain off-loading liquid pumps and valves
- Clean engine parts and keep engine room clean.

Employment requirements

- Some secondary school education is required.
- On-the-job training is provided.

Additional information

- Training and testing for various endorsements and certification, including the Marine Emergency Duty (MED) certificate, occur following employment as an engine room crew member.
- Progression to ship engineer officer positions is possible with experience, additional training and certification by Transport Canada.

Classified elsewhere

- *Deck Crew, Water Transport* (7433)
- *Deck Officers, Water Transport* (2273)
- *Engineer Officers, Water Transport* (2274)

7435 Lock and Cable Ferry Operators and Related Occupations

This unit group includes workers who operate lock gates, bridges and similar equipment along canal systems, workers who operate cable ferries and ferry terminal workers. They are employed by the federal government, cable ferry companies and in ferry terminals.

Examples of titles classified in this unit group

bridgemaster
cable ferry operator
canal lock operator
ferry terminal worker
linesman/woman, canal lock system
loading bridge operator
lockmaster

Main duties

Lock equipment operators perform some or all of the following duties:

- Operate telecommunication equipment or use portable loudspeakers to direct movements of vessels in lock area
- Operate controls to open or close lock gates
- Operate controls to raise, lower or turn bridges
- Observe progress of vessels passing through locks.
- Cable ferry operators perform some or all of the following duties:
- Signal passengers and motor vehicles to embark and disembark
- Operate cable ferry across narrow waterway
- Perform routine maintenance and repairs to engine, cables and winches.

Ferry terminal workers perform some or all of the following duties:

- Operate controls to adjust landing bridge, position or remove gangplank, open or close doors and gates, and secure or remove docking devices
- Signal passengers and motor vehicles to embark and disembark
- May collect tickets or fares from passengers.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.

Additional information

- There is little or no mobility between lock equipment operators, cable ferry operators and terminal workers.

7436 Boat Operators

Boat operators operate small boats or crafts to transport passengers or freight, or perform other duties. They are employed by marine companies that provide sightseeing tours or water taxi services and by canal, port and harbour authorities.

Examples of titles classified in this unit group

charter boat operator
launch master
motor boat operator
scow captain
sightseeing boat operator
small craft operator
water taxi operator

Main duties

Boat operators perform some or all of the following duties:

- Operate motorboats, launches, small ferry boats and other similar vessels to transport passengers or freight
- Maintain boats and equipment on board, such as engines, winches, derricks, fire extinguishers and life preservers
- May perform other duties, such as checking for oil spills or other pollutants around ports and harbours, patrolling beaches and measuring depth of water.

Employment requirements

- Some secondary school education is required.
- On-the-job training is provided.
- Master of a Small Craft or Master of a Small Passenger Craft certificate, issued by Transport Canada, is required.

Additional information

- Mobility between boat operators in this unit group is possible.
- Progression to deck officer positions is possible with additional training, experience and certification.

Classified elsewhere

- Cable ferry operators (in 7435 *Lock and Cable Ferry Operators and Related Occupations*)
- *Deck Crew, Water Transport* (7433)
- Ferryboat operator and ship pilots (in 2273 *Deck Officers, Water Transport*)

7437 Air Transport Ramp Attendants

Air transport ramp attendants operate ramp-servicing vehicles and equipment, handle cargo and baggage and perform other ground support duties at airports. They are employed by airline and air services companies and the federal government.

Examples of titles classified in this unit group

aircraft groomer
airport ramp attendant
cargo attendant, air transport
ramp agent, air transport
ramp attendant, air transport
station attendant, air transport

Main duties

Air transport ramp attendants perform some or all of the following duties:

- Drive and operate ramp-servicing vehicles and equipment such as towing tractors, food service trucks, de-icer sprayers and lavatory servicing trucks
- Position passenger loading stairs and operate aircraft cargo doors
- Marshal or tow aircrafts to gate positions for passenger boarding and deplaning and for loading and unloading of cargo
- Sort and load cargo and passenger baggage according to instructions forwarded by load planner to achieve proper balance
- Unload, sort and route cargo and baggage
- Transport freight between aircraft and airport warehouse
- Clean and prepare aircraft interior for passengers and wash aircraft exterior.

Employment requirements

- Completion of secondary school is usually required.
- Experience operating baggage transporting equipment or warehouse experience may be required.
- A driver's licence and a good driving record is usually required.

Additional information

- There is mobility among jobs in this unit group.

Classified elsewhere

- Airline load planners (in 6433 *Airlines Sales and Service Agents*)
- Baggage handlers (in 6672 *Other Attendants in Accommodation and Travel*)
- *Material Handlers* (7452)

7441 Residential and Commercial Installers and Servicers

Workers in this unit group install and service a wide variety of interior and exterior prefabricated products such as windows, doors, electrical appliances, water heaters, fences, play structures and septic systems, at residential or commercial properties. They are employed by companies specializing in specific product installation and service.

Examples of titles classified in this unit group

aluminium window installer
eavestrough installer
electric appliance installer
exterior cladder
fence erector
hot tub installer
kitchen cupboard and vanity installer
recreation structure erector
siding installer
sign installer
swimming pool installer
water conditioner servicer
water heater servicer
window installer

Main duties

Installers and servicers in this unit group perform some or all of the following duties:

- Read blueprints or work order specifications to determine layout and installation procedures
- Measure and mark guidelines to be used for installations
- Install, repair and service interior prefabricated products such as doors, windows, kitchen cupboards, bathroom vanities, water heaters and household appliances using hand and power tools
- Install, repair and service exterior prefabricated products such as siding, shutters, awnings, fencing, decks, septic systems, signs and play structures using hand and power tools.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training and several months of related installing, repairing or servicing experience are usually required.
- A driver's licence may be required.

Additional information

- There is some mobility among the various types of installers and servicers in this unit group.

Classified elsewhere

- Central air conditioner installers (in 7313 *Refrigeration and Air Conditioning Mechanics*)
- Supervisors of workers in this unit group (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7442 Waterworks and Gas Maintenance Workers

Waterworks maintenance workers maintain and repair waterworks equipment and facilities. They are employed in water filtration and distribution plants and waste treatment plants. Gas maintenance workers check and perform routine maintenance and minor repairs to exterior and underground gas mains and distribution lines. They are employed by gas distribution companies

Examples of titles classified in this unit group

gas leak locator
gas maintenance worker
gas utility operator
pipeline maintenance worker
pipeline patrolman/woman
utility plant maintenance worker
waterworks maintenance worker

Main duties

Waterworks maintenance workers perform some or all of the following duties:

- Check, clean and lubricate waterworks equipment, such as pumping equipment, chlorination equipment and compressors
- Adjust and repair waterworks equipment under the direction of qualified tradesperson
- Search and locate reported water leaks and repair water-mains, valves or outlets
- Install water meters using hand and power tools.

Gas maintenance workers perform some or all of the following duties:

- Check and lubricate gas pipeline valves
- Conduct routine survey of gas mains and distribution lines to detect and locate escaping gas using gas detecting devices
- Investigate reports of gas leaks to determine the exact location and extent of leaks
- Dig ground to expose gas lines and repair damaged pipes
- Keep record of work performed and location and condition of pipelines
- Provide information on underground gas distribution lines and observe excavation work to ensure that underground gas facilities are protected.

Employment requirements

- Completion of secondary school may be required.
- Several years of experience as a labourer in the same company may be required.
- On-the-job training is provided.

Additional information

- Mobility between jobs in this unit group normally occurs within the same area of work, such as within waste water treatment plants, within water filtration and distribution plants or within gas distribution plants.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Gas Fitters* (7253)
- Supervisors of water and gas maintenance workers (in 9212 *Supervisors, Petroleum, Gas and Chemical Processing and Utilities*)
- *Water and Waste Plant Operators* (9424)

7443 Automotive Mechanical Installers and Servicers

Workers in this group install replacement automotive mechanical parts such as mufflers, exhaust pipes, shock absorbers, springs and radiators and perform routine maintenance service such as oil changes, lubrication and tire repairs on automobiles, trucks and heavy equipment. They are employed by automobile and truck service and repair shops, service departments of industrial establishments and construction, mining and logging companies.

Examples of titles classified in this unit group

crane greaser
heavy equipment servicer
muffler installer
radiator installer
shock absorber installer
spring installer
tire repairer

Main duties

Automotive mechanical installers and servicers perform some or all of the following duties:

- Change engine oil and lubricate running gears or moving parts of automobiles, trucks and heavy equipment
- Grease booms, pulleys, buckets and other components of heavy equipment
- Replace oil, air and fuel filters on motor vehicles, trucks and heavy equipment
- Install replacement mufflers, exhaust pipes, shock absorbers or radiators on motor vehicles, trucks and heavy equipment
- Repair and balance tires
- Add or replace hydraulic and transmission fluids in motor vehicles, trucks and heavy equipment
- Assist mechanics and perform other duties as directed
- Drive automobile or service truck to location of construction, logging or other industrial sites to provide services.

Employment requirements

- Some secondary school may be required.
- Several months of on-the-job training are usually required.

Additional information

- There is some mobility among installers and servicers in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Automotive Service Technicians, Truck Mechanics and Mechanical Repairers* (7321)
- *Heavy-Duty Equipment Mechanics* (7312)
- Supervisors of workers in this unit group (in 7216 *Contractors and Supervisors, Mechanic Trades*)

7444 Pest Controllers and Fumigators

Pest controllers and fumigators inspect buildings and outside areas for pest infestation and spray chemical treatments to kill noxious and destructive insects, rodents and other pests or set cage traps to capture and remove animals. They are employed by pest control companies, or they may be self-employed.

Examples of titles classified in this unit group

animal control trapper
exterminator, pests
fumigator, pests
nuisance control trapper
pest control operator
pest control technician
pest controller

Main duties

Pest controllers and fumigators perform some or all of the following duties:

- Inspect buildings and outside areas at regular intervals or at specific request of property owner to detect signs of infestation
- Determine type of treatment required and provide estimate of costs to clients
- Prepare and spray chemical mixture on infested areas using mechanical or electric sprayer to kill insects, rodents and other pests
- Fumigate households
- Place and set traps to capture and remove animals, such as skunks or raccoons
- Install animal control barriers such as needle strips, netting and other devices to keep animals off property
- Clean out areas that harbour pests using rakes, shovels, brooms or mops
- Advise clients on how to prevent pest infestation.

Employment requirements

- Completion of secondary school is usually required.
- Completion of courses in pest control or extermination or several months of on-the-job training are usually required.
- Provincial pesticide applicator licence is required in all provinces.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Supervisors of pest controllers and fumigators (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7445 Other Repairers and Servicers

This unit group includes workers, not elsewhere classified, who repair and service a wide variety of products, such as cameras, scales, musical instruments, coin machines, vending machines, sporting goods and other miscellaneous products and equipment. They are employed by product specialty repair shops and service establishments.

Examples of titles classified in this unit group

bicycle repairer
camera repairer
meter repairer
piano repairer
scale repairer
sewing machine servicer – domestic
sporting goods repairer
vending machine repairer

Main duties

Repairers and servicers in this unit group perform some or all of the following duties:

- Inspect products to determine the requirement for repair
- Repair or replace defective or worn out parts and components using hand, power or specially designed tools
- Test and adjust repaired products for proper functioning
- Perform routine maintenance
- May calibrate products using hand tools.

Employment requirements

- Some secondary school education is usually required.
- Completion of college or other courses relevant to a particular equipment or product repair
  or
  Completion of several months of on-the-job training is usually required.

Additional information

- Some mobility may occur among workers in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Locksmiths (in 7383 *Other Trades and Related Occupations*)
- Supervisors of workers in this unit group (in 7219 *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers*)

7451 Longshore Workers

Longshore workers transfer cargo throughout dock area and onto and from ships and other vessels. They are employed by marine cargo handling companies, shipping agencies and shipping lines.

Examples of titles classified in this unit group

dockworker
longshore worker
longshoreman/woman
ship loader operator
stevedore
tanker loader

Main duties

Longshore workers perform some or all of the following duties:

- Operate industrial trucks, tractors and other mobile equipment to transfer cargo, such as containers, crated items, automobiles and pallet-mounted machinery, around dock to within range of cranes and hoists
- Operate winches or other hoisting devices to load and unload cargo onto and from ships and other vessels
- Operate mechanical towers to load vessels with materials such as coal and ore
- Operate equipment to transfer bulk materials, such as grain, to hold of vessels
- Connect hoses and operate equipment to transfer liquid materials into storage tanks on vessels
- Perform other activities such as lashing and shoring cargo aboard ships, opening and closing hatches, cleaning holds of ships and rigging cargo.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.

Additional information

- Progression to foreman/woman or supervisor of longshore workers is possible with experience.

Classified elsewhere

- Longshore crane operators (in 7371 *Crane Operators*)
- *Material Handlers* (7452)
- Supervisors of longshore workers (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)

7452 Material Handlers

This unit group includes workers who handle, move, load and unload materials by hand or by using a variety of material handling equipment. They are employed by transportation, storage and moving companies, and by a variety of manufacturing and processing companies and retail and wholesale warehouses.

Examples of titles classified in this unit group

bin filler
coal handler
conveyor console operator
forklift truck operator
freight handler (except air transport)
furniture mover
lumber piler – building supplies
material handler
railway car loader
stockpiler
storage worker – material handling
truck loader
warehouseman/woman

Main duties

Material handlers (manual) perform some or all of the following duties:

- Load, unload and move products and materials by hand or using basic material handling equipment
- Move household appliances and furniture onto and off moving trucks or vans
- Perform other material handling activities such as counting, weighing, sorting, packing and unpacking.

Material handlers (equipment operators) perform some or all of the following duties:

- Operate winches and other loading devices to load and unload materials onto and off trucks, railway cars and loading docks of warehouses and industrial establishments
- Operate industrial trucks, tractors, loaders and other equipment to transport materials to and from transportation vehicles and loading docks and to store and retrieve materials in warehouses
- Connect hoses or pipes and operate equipment to load and unload liquid petroleum, chemical or other products into or from tank cars, tank trucks or storage tanks
- Operate equipment to dump materials such as coal, ore and grain into or to remove materials from railway cars, trucks or other vehicles
- Operate conveyors and equipment to transfer grain or other materials from transportation vehicles to elevators, bins or other storage areas
- May perform other activities, such as opening containers and crates, filling warehouse orders, assisting in taking inventory and weighing and checking materials.

Employment requirements

- Some secondary school education may be required.
- Physical strength is required for manual material handlers who work with heavy materials.

Classified elsewhere

- Freight attendants (in 7437 *Air Transport Ramp Attendants*)
- *Heavy Equipment Operators (Except Crane)* (7421)
- *Longshore Workers* (7451)
- *Storekeepers and Parts Clerks* (1472)
- Supervisors of material handlers (in 7217 *Contractors and Supervisors, Heavy Construction Equipment Crews*)
- Warehouse supervisors (in 1215 *Supervisors, Recording, Distributing and Scheduling Occupations*)

7611 Construction Trades Helpers and Labourers

Construction trades helpers and labourers assist skilled tradespersons and perform labouring activities at construction sites. They are employed by construction companies and trade and labour contractors.

Examples of titles classified in this unit group

asphalt spreader
bricklayer helper
carpenter helper
concrete mixer helper
construction helper
construction labourer
demolition worker
drywall sander
flagman/woman
glazier helper
labourer, concrete paving
labourer, excavation
pipeline mandrel operator
plumber helper
roofer helper
stabber – pipeline construction

Main duties

Construction trades helpers and labourers perform some or all of the following duties:

- Load and unload construction materials, and move materials to work areas
- Erect and dismantle concrete forms, scaffolding, ramps, catwalks shoring and barricades required at construction sites
- Mix, pour and spread materials such as concrete and asphalt
- Assist trades persons such as carpenters, bricklayers, cement finishers, roofers and glaziers in construction activities
- Assist heavy equipment operators to secure special attachments to equipment, signal operators to guide them in moving equipment and provide assistance in other activities
- Assist in aligning pipes and perform related activities during oil and gas pipeline construction
- Assist in drilling and blasting rock at construction sites
- Level earth to fine grade specifications using rake and shovel
- Assist in demolishing buildings using prying bars and other tools, and sort, clean and pile salvaged materials
- Remove rubble and other debris at construction sites using rakes, shovels, wheelbarrows and other equipment
- Operate pneumatic hammers, vibrators and tampers as directed
- Tend or feed machines or equipment used in construction such as mixers, compressors and pumps
- Clean up chemical spills and other contaminants, and remove asbestos and other hazardous materials
- Oil and grease hoists and similar equipment
- Direct traffic at or near construction sites
- Perform other activities at construction sites, as directed.

Employment requirements

- Some experience as a general construction labourer may be required for construction trade helpers.
- Some pipeline workers, such as stabbers, mandrel operators and pre-heater tenders, usually require one season of experience in oil and gas pipeline construction.
- Flagmen/women may require a traffic control certificate.

Additional information

- Mobility is possible among workers in this unit group.

Classified elsewhere

- *Other Trades Helpers and Labourers* (7612)
- *Public Works and Maintenance Labourers* (7621)

7612 Other Trades Helpers and Labourers

This unit group includes trade helpers and labourers, not elsewhere classified, who assist skilled tradespersons and perform labouring activities in the installation, maintenance and repair of industrial machinery, refrigeration, heating and air conditioning equipment, in the maintenance and repair of transportation and heavy equipment, in the installation and repair of telecommunication and power cables and in other repair and service work settings. They are employed by a wide variety of manufacturing, utility and service companies.

Examples of titles classified in this unit group

aerial spraying assistant
aircraft mechanic helper
cable installer helper
diesel mechanic helper
ground worker – telecommunications
mechanic's helper – automotive
millwright helper
refrigeration mechanic helper
splicer helper – telecommunications
surveyor helper

Main duties

Trade helpers and labourers in this unit group perform some or all of the following duties:

- Move tools, equipment and other materials to and from work areas
- Assist in splicing overhead and underground communications and electric power transmission cables
- Assist in repairing, maintaining and installing industrial machinery and equipment
- Assist in repairing, maintaining and installing refrigeration, heating and air conditioning equipment
- Assist in repairing, maintaining and installing elevators
- Assist in repairing and maintaining stationary electric power generating and distribution equipment
- Assist in mechanical, electrical and body repairs of aircraft, railway cars, automobiles, trucks, buses, heavy equipment and motorcycles
- Assist in repairing electrical appliances, small engines or other similar equipment
- Mix fertilizers, herbicides and pesticides and load mixture into airplane for aerial spraying
- Assist in land surveying activities, such as holding or moving stakes and rods, clearing brush and debris from line of survey and transporting surveying tools to work area
- Perform other labouring and elemental tasks as required.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.

Additional information

- There is little or no mobility between occupations in this unit group.

Classified elsewhere

- *Construction Trades Helpers and Labourers* (7611)

7621 Public Works and Maintenance Labourers

Public works and maintenance labourers perform a variety of labouring activities to maintain sidewalks, streets, roads and similar areas. They are employed by municipal, provincial and federal government public works departments or by private contractors under contract to governments.

Examples of titles classified in this unit group

garbage collector
municipal labourer
parking meter collector
public works labourer
road maintenance worker
sewer maintenance worker
sidewalk cleaner

Main duties

Public works and maintenance labourers perform some or all of the following duties:

- Clean and maintain sidewalks, streets, roads and public grounds of municipality and other areas, working as member of crew
- Sweep debris and shovel snow from streets, sidewalks, building grounds and other areas, and load snow and debris into carts or trucks
- Shovel cement and other materials into cement mixers, spread concrete and asphalt on road surfaces using shovels, rakes and hand tampers, and perform other activities to assist in maintenance and repair of roads
- Spread sand or salt on sidewalks for snow and ice control
- Dig ditches and trenches using shovels and other hand tools
- Operate jackhammers and drills to break up pavement
- Operate power mowers and cutters to cut lawns and grass along roadsides
- Cut trees, trim branches, rake leaves, apply fertilizer and insecticides by hand, and water public lawns, trees and shrubs
- Load and unload trucks with supplies and equipment
- Collect money from coin boxes of parking meters along established route
- Collect and load refuse on garbage trucks
- Assist equipment operators to secure attachments to equipment or trucks
- Assist in routine maintenance and repair of equipment
- Assist skilled tradespersons such as carpenters, plumbers and mechanics
- May operate mobile sidewalk-cleaning equipment.

Employment requirements

- Several weeks of on-the-job training are provided.

Additional information

- Progression to supervisory positions or to public works maintenance equipment operator positions is possible with experience.

Classified elsewhere

- Construction labourers (in 7611 *Construction Trades Helpers and Labourers*)
- Park maintenance labourer (in 8612 *Landscaping and Grounds Maintenance Labourers*)
- *Public Works Maintenance Equipment Operators* (7422)
- *Railway and Motor Transport Labourers* (7622)

7622 Railway and Motor Transport Labourers

Railway and motor transport labourers perform a variety of tasks to assist track maintenance workers and railway yard workers, or motor transport operators. They are employed by railway transport companies and motor transport companies.

Examples of titles classified in this unit group

car checker, railway
delivery truck helper
furniture mover helper
mover helper
railway labourer
signal gang helper
truck driver helper

Main duties

Railway labourers perform some or all of the following duties:

- Transport tools and equipment on push or hand car and perform other duties to assist railway track maintenance workers to lay, maintain and repair railway tracks
- Cut vegetation growth from railway tracks using scythes and mowers
- Check freight cars for physical damage and cleanliness.

Motor transport labourers perform some or all of the following duties:

- Assist truck and delivery drivers to load and unload vehicles
- Perform labouring duties in warehouses.

Employment requirements

- Some secondary school education is usually required.

Additional information

- With experience, railway labourers may progress to railway track maintenance workers or railway yard workers.

Classified elsewhere

- *Material Handlers* (7452)
- Rail car oilers and greasers (in 7431 *Railway Yard Workers*)

OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

Major Group 82
SKILLED OCCUPATIONS IN PRIMARY INDUSTRY

821 Supervisors, Logging and Forestry

8211 Supervisors, Logging and Forestry

822 Supervisors, Mining, Oil and Gas

8221 Supervisors, Mining and Quarrying
8222 Supervisors, Oil and Gas Drilling and Service

823 Underground Miners, Oil and Gas Drillers and Related Workers

8231 Underground Production and Development Miners
8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

824 Logging Machinery Operators

8241 Logging Machinery Operators

825 Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture

8251 Farmers and Farm Managers
8252 Agricultural and Related Service Contractors and Managers
8253 Farm Supervisors and Specialized Livestock Workers
8254 Nursery and Greenhouse Operators and Managers
8255 Landscaping and Grounds Maintenance Contractors and Managers
8256 Supervisors, Landscape and Horticulture
8257 Aquaculture Operators and Managers

826 Fishing Vessel Masters and Skippers and Fishermen/women

8261 Fishing Masters and Officers
8262 Fishing Vessel Skippers and Fishermen/women

Major Group 84
INTERMEDIATE OCCUPATIONS IN PRIMARY INDUSTRY

841 Mine Service Workers and Operators in Oil and Gas Drilling

8411 Underground Mine Service and Support Workers
8412 Oil and Gas Well Drilling Workers and Services Operators

842 Logging and Forestry Workers

8421 Chainsaw and Skidder Operators
8422 Silviculture and Forestry Workers

843 Agriculture and Horticulture Workers

8431 General Farm Workers
8432 Nursery and Greenhouse Workers

844 Other Fishing and Trapping Occupations

8441 Fishing Vessel Deckhands
8442 Trappers and Hunters

Major Group 86
LABOURERS IN PRIMARY INDUSTRY

861 Primary Production Labourers

8611 Harvesting Labourers
8612 Landscaping and Grounds Maintenance Labourers
8613 Aquaculture and Marine Harvest Labourers
8614 Mine Labourers
8615 Oil and Gas Drilling, Servicing and Related Labourers
8616 Logging and Forestry Labourers

8211 Supervisors, Logging and Forestry

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in logging operations and silvicultural operations. They are employed by logging companies, contractors and government agencies.

Examples of titles classified in this unit group

forest operations supervisor
forestry crew supervisor
hook tender
logging contractor
logging foreman/woman
production supervisor – logging
silviculture supervisor
woods foreman/woman

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise and co-ordinate the activities of logging and forestry workers in woodland operations, often in several work locations over several square kilometres
- Supervise silvicultural activities such as scarification, planting and vegetation control
- Schedule work crews, equipment and transportation for several work locations
- Resolve work problems and recommend measures to improve work methods
- Instruct workers in safety, recognize unsafe work conditions and modify work procedures
- Ensure that government regulations are met
- Communicate with forestry technical, professional and management personnel regarding forest harvesting and forest management plans, procedures and schedules
- Prepare production and other reports
- Hire and train new workers.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- to three-year college program for forestry technologists or technicians may be required.
- Formal company training and several months of on-the-job training are provided.
- Several years of experience as a logger, silvicultural worker, or logging machinery operator are usually required.
- A chemical application licence may be required.
- An industrial first-aid certificate may be required.

Classified elsewhere

- *Chainsaw and Skidder Operators* (8421)
- *Forestry Technologists and Technicians* (2223)
- Logging and forestry managers (in 0811 *Primary Production Managers (Except Agriculture)*)
- *Logging Machinery Operators* (8241)
- *Silviculture and Forestry Workers* (8422)

8221 Supervisors, Mining and Quarrying

Supervisors in this unit group supervise and co-ordinate activities of workers engaged in underground and surface mining operations and quarries. They are employed by coal, metal and non-metallic mineral mines and quarries.

Examples of titles classified in this unit group

fill foreman/woman
foreman/woman, underground mine
level boss
mine captain
mine foreman/woman
shift boss
supervisor, mine
supervisor, quarry
supervisor, surface mine
track boss
yard boss

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who extract coal, minerals and ore; operate underground conveyances; and perform other services in support of underground mining, or of heavy equipment operators, drillers, blasters and other workers in surface mining and quarrying
- Establish methods to meet work schedules and confer with managerial and technical personnel, other departments and contractors to resolve problems and co-ordinate activities
- Oversee the safety of the mining or quarrying operation
- Resolve work problems and recommend measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is required.
- Completion of a college or university program in mining technology or engineering may be required for some positions in this group.
- Several years of experience in the occupations supervised is usually required.
- Provincial certification as an underground mine supervisor, shift boss, or coal mining supervisor may be required.

Additional information

- There is mobility between employers especially for supervisors with post-secondary diplomas or degrees.
- Mobility between surface mining, underground mining, coal or metal mining sectors may be somewhat limited by differences in production technologies and licensing requirements.

Classified elsewhere

- *Drillers and Blasters – Surface Mining, Quarrying and Construction* (7372)
- *Heavy Equipment Operators (Except Crane)* (7421)
- *Mine Labourers* (8614)
- Mine managers (in 0811 *Primary Production Managers (Except Agriculture)*)
- *Underground Mine Service and Support Workers* (8411)
- *Underground Production and Development Miners* (8231)

8222 Supervisors, Oil and Gas Drilling and Service

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in drilling for oil or gas, operating service rigs, or providing oil and gas well services. They are employed by drilling and well service contractors and by petroleum producing companies.

Examples of titles classified in this unit group

fracturing supervisor
multi-service operator
rig manager
toolpusher
well services crew supervisor

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who drill for oil and gas, operate service rigs or provide oil and gas well services
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is required.
- Completion of college or Petroleum Industry Training Service (PITS) courses is required.
- Extensive experience of up to eight years in the occupations supervised is required.
- A two-year college diploma in petroleum engineering technology may be required.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) or other safety and technical subjects are required and are obtained by completing short courses.

Additional information

- There is little mobility for supervisors from well services to well drilling.

Classified elsewhere

- *Oil and Gas Well Drillers, Servicers, Testers and Related Workers* (8232)
- *Oil and Gas Well Drilling Workers and Services Operators* (8412)
- *Primary Production Managers* (*Except Agriculture*) (0811)

8231 Underground Production and Development Miners

Underground production and development miners drill, blast, operate mining machinery and perform related duties to extract coal and ore in underground mines and to construct tunnels, passageways and shafts to facilitate mining operations. They are employed by coal, metal and non-metallic mineral underground mines and by specialized contractors in mine construction, shaft sinking and tunnelling.

Examples of titles classified in this unit group

blaster – underground mining
chute blaster
diamond driller – underground mining
drift miner
driller – underground mining
faceman/woman – coal mine
hoist operator – underground mining
jumbo drill operator
miner
mining machine operator
mucking machine operator
raise miner
roadheader operator
scoop tram operator
shaft inspector
shot firer

Main duties

Underground production and development miners perform some or all of the following duties:

- Set up and operate drills and drilling machines to produce a designated pattern of blasting holes
- Operate diamond drills or other specialized drills such as raise boring machinery to test geological formations or to produce underground passageways
- Set up and operate mining machinery to shear coal, rock or ore from the working face
- Load explosives, set fuses, and detonate explosives to produce desired blasting patterns and rock fragmentation in underground mines
- Operate scooptram, load-haul-dump (LHD) machine or mucking machine to load and haul ore from stopes, drifts and drawpoints to ore passes
- Perform duties required to ensure safety and to support the mining advance, such as scaling loose rock from walls and roof, drilling and installing rock bolts, extending and installing air and water pipes, operating ore loading machinery, inspecting mine shafts, operating hoists that transport people, equipment and materials through mine shafts and constructing timber supports and cribbing if required
- Perform routine maintenance of mining machinery.

Employment requirements

- Completion of secondary school is usually required.
- Formal training of up to six weeks followed by extended periods of specialized training as a helper or in support occupations is usually provided.
- Previous experience as a mine labourer or in other mine occupations is usually required.
- Provincial blasting licence may be required.
- May be certified in the basic common core program or as an underground hard rock miner in Ontario.
- Trade certification for miners is available, but voluntary, in Quebec and Manitoba.
- Company licensing or certification is often required for occupations in this unit group.

Additional information

- Progression to mining supervisor is possible with experience.
- Mobility is possible to other occupational groups in underground mining such as underground service and support occupations.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.
- Mobility between these sectors is somewhat limited by differences in production technologies.

Classified elsewhere

- *Drillers and Blasters – Surface Mining, Quarrying and Construction* (7372)
- *Mine Labourers* (8614)
- *Supervisors, Mining and Quarrying* (8221)
- *Underground Mine Service and Support Workers* (8411)

8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

Oil and gas well drillers and well servicers control the operation of drilling and hoisting equipment on drilling and service rigs, and direct the activities of the rig crew under supervision of the rig manager. Oil and gas well loggers, testers and related workers operate specialized mechanical or electronic equipment, tools or instruments to provide services in conjunction with well drilling, completion or servicing. Workers in this unit group are employed by drilling and well service contractors, petroleum producing companies and well logging or testing companies.

Examples of titles classified in this unit group

assistant driller
directional drilling operator
downhole tool operator
drill stem tester
driller – oil and gas
electric line operator
logging and perforating operator
service rig operator
slickline operator
well testing operator
wireline operator

Main duties

Oil and gas well drillers and well servicers perform some or all of the following duties:

- Direct rig crew in setting up rigs and drilling, completing or servicing oil and gas exploration and producing wells
- Operate controls of drill or service rig drilling and hoisting machinery
- Train or arrange for training of crew
- Maintain records of drilling and servicing operations.

Oil and gas well loggers, testers and related workers perform some or all of the following duties:

- Drive well service or wireline truck to well site
- Assemble and attach equipment, tools or recorders to drill stem or wireline to conduct required procedures and tests
- Operate or direct the operation of wireline or unit controls to lower, position and retrieve equipment and instruments
- Operate recorders and computers in mobile testing or logging unit to collect data
- May perform limited data interpretation.

Employment requirements

- Completion of secondary school is usually required.
- Oil and gas well drillers and well servicers require three to six months of formal on-the-job training, college or Petroleum Industry Training Service (PITS) courses and four or more years of work experience in subordinate rig crew positions.
- A college diploma in drilling may be required.
- Offshore work requires several years of experience in an equivalent position on land.
- Certificates in first-aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) and a special oil well operator certificate are required.
- Oil and gas well loggers, testers and related workers require three to six months of formal on-the-job training and several years experience in subordinate logging and testing positions or on drilling and servicing rigs.
- Completion of a college program in electronics or engineering technology may be required for open hole well logging.
- Provincial blaster licence, seismic blaster and oil well blaster certification is required for well perforation services.

8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

Additional information

- Progression to crew supervisors or managers is possible with experience and additional education and training.
- Mobility between jobs on drilling and service rigs is limited by the differences in the machinery, tools and operations performed, but mobility is possible especially from drilling to service rigs.

Classified elsewhere

- *Oil and Gas Well Drilling Workers and Services Operators* (8412)
- *Supervisors, Oil and Gas Drilling and Service* (8222)
- *Water Well Drillers* (7373)

8241 Logging Machinery Operators

Logging machinery operators operate cable yarding systems, mechanical harvesters and forwarders and mechanical tree processors and loaders to fell, yard and process trees at logging sites. They are employed by logging companies and contractors.

Examples of titles classified in this unit group

Cable yarding system operators

grapple operator – logging
linehorse operator
rigging slinger
steelspar operator
yarder operator

Mechanical harvester and forwarder operators

feller buncher operator
feller forwarder operator
shortwood harvester operator
treelength forwarder operator

Mechanical tree processor and loader operators

chipping machine operator
delimber operator
loader operator – logging
log processor operator
slasher operator – logging

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Cable yarding system operators operate machines to transport trees from logging areas to landing or log loading sites in mountainous terrain in western Canada.
- Mechanical harvester and forwarder operators assess site and terrain and drive heavy equipment to perform a combination of felling, slashing, bucking, bunching and forwarding operations at logging areas.
- Mechanical tree processor and loader operators operate a variety of machines which perform a combination of slashing, bucking, chipping, sorting and loading logs or trees at landing sites.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training from three to 16 months is provided, depending on the complexity of machinery operated and the type of woodlands operation.
- Experience requirements vary depending on the complexity of machinery operated.
- Mechanical harvester and forwarder operators may require logging experience as a chainsaw and skidder operator.
- Feller buncher operators and cable yarder operators usually require three to five years of logging experience.
- Mechanical tree processor and loader operators usually require one to three years of logging experience.
- Certification as a heavy equipment operator may be required.
- Company certification for mobile logging machinery operation may be required.
- Provincial air brake certification may be required in British Columbia, depending on the type of equipment operated.
- Workplace hazardous materials information system (WHMIS) and St. John's first-aid certification may be required.
- Knowledge of tree harvesting regulations is required.

8241 Logging Machinery Operators

Additional information

- There is some mobility among jobs in this group from the less complex to more complex machinery operation.
- There is some mobility between employers, particularly in similar types of woodland operations.
- Progression to logging and forestry supervisory positions is possible with experience.
- Self-employment as a logging contractor is possible with investment in equipment.
- Logging machinery operators may perform minor repairs and maintenance on their equipment.

Classified elsewhere

- *Chainsaw and Skidder Operators* (8421)
- *Heavy Equipment Operators (Except Crane)* (7421)
- *Silviculture and Forestry Workers* (8422)
- *Supervisors, Logging and Forestry* (8211)
- *Truck Drivers* (7411)

8251 Farmers and Farm Managers

Farmers and farm managers manage the operations and functions of a farm. They are responsible for growing crops, raising and breeding livestock, poultry and other animals and marketing farm products.

Examples of titles classified in this unit group

apiarist
apple grower
breeder, domestic animals
chicken farmer
dairy farmer
feedlot manager
fruit farmer
fur farmer
grape grower
hog breeder
horse breeder
market gardener
potato farmer
rancher
seed grower
sod farmer
vegetable grower
vineyard manager
wheat farmer

Main duties

Farmers and farm managers perform some or all the following duties:

- Manage the overall operation of a farm, ranch or orchard
- Determine amount and kinds of crops to be grown and livestock to be raised
- Plant, cultivate and harvest crops
- Raise and breed livestock and poultry
- Hire and supervise farm workers
- Establish a marketing program
- Purchase farm machinery, livestock, seed, feed and other supplies
- Maintain farm machinery, equipment and buildings
- Develop and keep financial and production records.

Farmers and farm managers may manage farms specialized in particular crops such as wheat, apples or potatoes or raise particular livestock such as beef cattle, hogs or chickens.

Employment requirements

- Extensive farming experience (obtained as a farmer, farm supervisor or specialized livestock worker or by working on a family farm) is usually required.
- A college diploma in agriculture may be required.

Classified elsewhere

- *Agricultural and Related Service Contractors and Managers* (8252)
- *Farm Supervisors and Specialized Livestock Workers* (8253)
- *Nursery and Greenhouse Operators and Managers* (8254)
- *Supervisors, Landscape and Horticulture* (8256)

8252 Agricultural and Related Service Contractors and Managers

Contractors and managers in this unit group operate establishments that provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting.

Examples of titles classified in this unit group

artificial inseminator
crop dusting contractor
livestock breeding service manager
manager, artificial insemination service
manager, crop harvesting service

Main duties

Contractors and managers in this unit group perform some or all the following duties:

- Manage businesses which provide an agricultural livestock service such as artificial insemination, spraying or shearing of livestock or disinfecting pens, barns or poultry houses
- Manage businesses which provide agricultural crop services such as plowing, irrigating, cultivating, spraying or harvesting
- Hire and train workers
- Negotiate with farmers and farm managers regarding the services to be provided
- Maintain financial and operational records
- May participate in the provision of the service or in the operation of machinery and equipment.

Employment requirements

- Several years of experience related to the agricultural service offered are usually required.
- Contractors and managers providing certain services, such as artificial insemination and pesticide application, may require training certificates and provincial licensing.

Classified elsewhere

- *Farmers and Farm Managers* (8251)
- *Farm Supervisors and Specialized Livestock Workers* (8253)
- *Nursery and Greenhouse Operators and Managers* (8254)
- *Pest Controllers and Fumigators* (7444)
- *Pet Groomers and Animal Care Workers* (6483)
- *Supervisors, Landscape and Horticulture* (8256)

8253 Farm Supervisors and Specialized Livestock Workers

Farm supervisors supervise the work of general farm workers and harvesting labourers and perform general farm duties. Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry and hog farms and may also supervise general farm workers and harvesting labourers.

Examples of titles classified in this unit group

cattle herdsperson
dairy herdsperson
farm foreman/woman
farm supervisor
feedlot foreman/woman
hog operation supervisor
horse trainer
poultry farm foreman/woman
ranch foreman/woman
swine herdsperson
vegetable farm foreman/woman

Main duties

Farm supervisors perform some or all of the following duties:

- Co-ordinate and supervise the work of general farm workers and harvesting labourers
- Supervise breeding programs and harvest operations
- Develop work schedules and establish procedures
- Maintain quality control and production records
- Perform general farm duties.

Farm supervisors may specialize in dairy, poultry, swine, beef, sheep, fruit, vegetable, mixed, speciality and equine farms.

Specialized livestock workers perform some or all of the following duties:

- Formulate a feeding program
- Maintain livestock performance records
- Carry out a pasture or pen breeding program
- Recognize and treat certain livestock health problems
- Train horses
- Perform general farm duties
- May supervise general farm workers and harvesting labourers.

Specialized livestock workers usually specialize in one type of farm animal, such as beef cattle, dairy cattle or swine.

Employment requirements

- Farm supervisors and specialized livestock workers may require a college certificate or other specialized training in agriculture or livestock husbandry.

Classified elsewhere

- *Agricultural and Related Service Contractors and Managers* (8252)
- *Farmers and Farm Managers* (8251)
- *General Farm Workers* (8431)
- *Harvesting Labourers* (8611)

8254 Nursery and Greenhouse Operators and Managers

Nursery and greenhouse operators and managers plan, organize, direct and control the activities of nursery and greenhouse staff who grow and market trees, shrubs, flowers and plants.

Examples of titles classified in this unit group

Christmas tree farm operator
flower grower
greenhouse farmer
greenhouse manager
greenhouse operator
nursery farmer
nursery manager
nursery operator
plant grower – nursery

Main duties

Nursery and greenhouse operators and managers perform some or all of the following duties:

- Plan, organize, direct and control the operations of nurseries and greenhouses
- Establish the environmental conditions required to grow trees, shrubs, flowers and plants, and design planting and care schedules accordingly
- Determine type and quantity of stock to grow
- Supervise staff in planting, transplanting, feeding and spraying stock
- Identify and control insect, disease and weed problems
- Develop marketing plans
- Provide information to customers on gardening and on the care of trees, shrubs, flowers, plants and lawns
- Order materials such as fertilizer, garden and lawn care equipment, and other nursery and greenhouse related accessories
- Hire and supervise staff, oversee training and set work schedules
- Maintain records on stock, finances and personnel.

Employment requirements

- Completion of a college program in horticulture is usually required.
- Experience as a nursery or greenhouse supervisor is required.

Classified elsewhere

- *Nursery and Greenhouse Workers* (8432)
- *Supervisors, Landscape and Horticulture* (8256)
- Turf farmer (in 8251 *Farmers and Farm Managers*)

8255 Landscaping and Grounds Maintenance Contractors and Managers

Landscaping and grounds maintenance contractors and managers plan, organize, direct and control the operations of landscaping, interior plantscaping, lawn care and tree service departments and establishments.

Examples of titles classified in this unit group

grounds maintenance contractor
grounds maintenance manager
interior plantscaping contractor
landscape service contractor
landscaping contractor
landscaping manager
lawn care manager
lawn maintenance contractor
tree service contractor

Main duties

Landscaping and grounds maintenance contractors and managers perform some or all of the following duties:

- Plan, organize, direct and control the operations of landscaping, interior plantscaping, lawn care and tree service establishments
- Tender bids on contracts for landscaping and grounds maintenance work
- Plan and estimate the materials and labour requirements for individual contracts
- Organize and direct the planting and maintenance of trees, gardens, lawns, shrubs and hedges and the construction and installation of fences, decks, patios, walkways and retaining walls
- Hire and supervise staff
- Maintain financial and personnel records.

Employment requirements

- A college diploma or specialized courses in landscaping and horticulture are usually required.
- Experience as a landscape or horticulture supervisor or as a landscape or horticulture technician is required.

Classified elsewhere

- *Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers* (7219)
- *Landscape Architects* (2152)
- *Landscape and Horticulture Technicians and Specialists* (2225)
- *Nursery and Greenhouse Operators and Managers* (8254)
- *Supervisors, Landscape and Horticulture* (8256)

8256 Supervisors, Landscape and Horticulture

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Landscaping and Grounds Maintenance Labourers* (8612) and *Nursery and Greenhouse Workers* (8432). They are employed by landscaping companies, cemeteries, lawn care and tree service companies, nurseries and greenhouses, and by landscaping departments of government and private establishments.

Examples of titles classified in this unit group

cemetery foreman/woman
greenhouse supervisor
grounds keeper supervisor
horticulture worker supervisor
landscaping foreman/woman
nursery foreman/woman
park caretaker
park supervisor, grounds maintenance
supervisor, nursery workers
supervisor, park labourers

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise and co-ordinate the activities of workers who perform the following duties: maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, interior plantscapes and other landscaped areas; spread topsoil and lay sod; spray, prune, cut and remove trees and shrubs; construct landscape and landscape structures; and plant, cultivate and harvest trees, shrubs, flowers and plants
- Establish work schedules and procedures and co-ordinate activities with other work units
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties and company policies
- Requisition supplies and materials
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- Experience in the occupation supervised is required.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

Classified elsewhere

- *Landscape and Horticulture Technicians and Specialists* (2225)
- *Landscape Architects* (2152)
- *Landscaping and Grounds Maintenance Contractors and Managers* (8255)
- *Nursery and Greenhouse Operators and Managers* (8254)

8257 Aquaculture Operators and Managers

Aquaculture operators and managers manage operations of facilities which cultivate and harvest fish, shellfish or marine plants for replenishment of wildlife stocks or for commercial sale. They are employed by public or private fish hatcheries and commercial aquatic farms, or they may be self-employed.

Examples of titles classified in this unit group

aquaculture manager
aquaculture operator
fish farm manager
fish farm operator
fish farmer
fish hatchery manager
fish hatchery operator
mussel grower
oyster grower
salmon grower
trout farmer

Main duties

Aquaculture operators and managers perform some or all of the following duties:

- Manage the overall operation of a fish hatchery, fish farm or other aquatic farm
- Identify requirements of the species and select and oversee preparation of site for species cultivation
- Co-ordinate selection and maintenance of brood stock
- Determine food requirements and structure feeding regimes
- Monitor environment and maintain optimum conditions
- Conduct and supervise stock examination to identify disease or parasites, and apply prescribed medicinal substances to control and prevent infection
- Operate and maintain cultivating and harvesting equipment
- Collect and record growth and production data
- Supervise and train aquaculture and fish hatchery support workers and supervise technicians and technologists
- Maintain financial records and establish market strategies, inventory and quality control methods
- Scuba dive to inspect sea farm operations
- Design and construct pens, floating stations and collector strings or fences for sea farms.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma in aquaculture or a related field
  or
  Several years of experience in fishing or aquaculture operations are usually required.
- A commercial aquaculture or fish hatchery licence, permit or lease is required for self-employed aquaculture operators and managers.

Classified elsewhere

- Aquaculture support workers (in 8613 *Aquaculture and Marine Harvest Labourers*)
- Aquaculture technicians (in 2221 *Biological Technologists and Technicians*)

8261 Fishing Masters and Officers

Fishing masters and officers manage and operate saltwater and freshwater fishing vessels greater than 100 gross tonnes to pursue and land fish and other marine life. They are employed by establishments engaged in operating commercial fishing vessels.

Examples of titles classified in this unit group

captain, fishing vessel
captain, offshore fishing vessel
deck officer, fishing vessel
first mate, fishing vessel
fishing master
master, fishing vessel
mate, fishing vessel
trawler captain

Main duties

Fishing masters and officers perform some or all of the following duties:

- Command fishing vessel to catch fish and other marine life
- Determine areas for fishing, plot courses and compute navigational positions using compass, charts, tables and other aids
- Steer vessels and operate navigational instruments and electronic fishing aids such as colour and paper sounders
- Direct fishing operations and supervise crew activities
- Record fishing progress, crew activities, weather and sea conditions on ship's log
- Select and train vessel crews.

Employment requirements

- Some secondary school education is usually required.
- One to two years of experience as a fishing vessel deckhand is required.
- Captains require one year of service as officer in charge of the watch.
- A Fishing Master's Certificate is required for all occupations in this unit group.
- A commercial fishing licence is required.

Additional information

- Completion of Department of Transport examinations is required to advance from Fishing Master Class IV through Class I. Training programs are provided in provincial training centres.
- Progression to merchant or government vessel officer positions (which require a Marine Officer Certificate) is possible with additional training and experience.

Classified elsewhere

- *Deck Officers, Water Transport* (2273)
- Fishing vessel engineers requiring a Department of Transport licence (in 2274 *Engineer Officers, Water Transport*)
- *Fishing Vessel Skippers and Fishermen/women* (8262)

8262 Fishing Vessel Skippers and Fishermen/women

Fishing vessel skippers and fishermen/women operate fishing vessels to pursue and land fish and other marine life. They are usually self-employed owner-operators of fishing vessels.

Examples of titles classified in this unit group

fisherman/woman
fishing vessel skipper
inshore fisherman/woman
lobster fisherman/woman
longliner fisherman/woman
seiner fisherman/woman

Main duties

Fishing vessel skippers and fishermen/women perform some or all of the following duties:

- Operate fishing vessel to pursue and catch fish and other marine life
- Select area for fishing, plot courses and compute navigational positions using compass, charts and other aids
- Steer vessel and operate navigational instruments
- Operate fishing gear, direct fishing operation and supervise fishing crew members
- Maintain engine, fishing gear and other on-board equipment
- Record fishing activities, weather and sea conditions
- Estimate costs of operations and plan budget for each fishing season
- Establish fish marketing plan and keep records of all financial transactions
- May transport fish to processing plants or fish buyers.

Employment requirements

- Several years of experience as fishing vessel crew member or helper are usually required.
- A commercial fishing licence is required.
- Licences are required for each species of fish pursued.

Additional information

- Progression to master or mate on fishing vessels over 100 gross tonnes is possible with additional training, licensing and experience.

Classified elsewhere

- *Fishing Masters and Officers* (8261)
- *Fishing Vessel Deckhands* (8441)

8411 Underground Mine Service and Support Workers

Underground mine service and support workers perform a range of duties related to the operation of orepasses, chutes and conveyor systems, the construction and support of underground structures, passages and roadways, and the supply of materials and supplies to support underground mining. They are employed by coal, metal and non-metallic mineral mines.

Examples of titles classified in this unit group

backfiller
blaster helper
cage tender
conveyor operator
crusher operator
driller helper
haulageman/woman
lamp keeper
materialman/woman
mine construction worker
orepass tender
pipe worker
raise miner helper
skip tender
timberman/woman
trainman/woman

Main duties

Underground mine service and support workers perform some or all of the following duties:

- Operate and maintain ore chutes or conveyor systems to control flow of ore or coal in underground mine
- Operate construction equipment such as bulldozer, grader or backhoe to build and maintain underground passages and haulageways
- Construct and repair wood or metal supports and structures such as bulkheads, platforms, drift doors and chutes using construction and mining tools
- Attach and extend ventilation and water pipes and related mine service
- Assist miners in setting up and operating various drills and other mining machinery
- Supply and maintain backfill distribution of sand, rock or other materials
- Operate diesel or electric track haulage equipment such as ore trains to distribute personnel and supplies and to convey ore from orepass to primary crusher or skip
- Maintain supply storage areas and maintain equipment and supplies such as explosives, drill bits, fire extinguishers, lamps and batteries
- Perform routine maintenance of machinery.

Employment requirements

- Completion of secondary school is usually required.
- Previous formal training of up to six weeks followed by periods of on-the-job training as a helper or in support occupations is usually required.
- Previous experience as a mine labourer is usually required.
- May be certified in the basic common core program in Ontario.
- Company licensing or certification is often required for occupations in this unit group.

Additional information

- Mobility is possible to other occupational groups in underground mining.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.
- Mobility between these sectors is somewhat limited by differences in production technologies.

Classified elsewhere

- *Drillers and Blasters – Surface Mining, Quarrying and Construction* (7372)
- *Mine Labourers* (8614)
- *Underground Production and Development Miners* (8231)

8412 Oil and Gas Well Drilling Workers and Services Operators

Oil and gas well drilling workers operate drilling and service rig machinery as intermediate members of the rig crew. Oil and gas well services operators drive trucks and operate specialized hydraulic pumping systems to place cement in wells or to treat wells with chemicals, sand mixtures or gases to stimulate production. Workers in this unit group are employed by drilling and well service contractors and by petroleum producing companies.

Examples of titles classified in this unit group

acid truck driver
blender operator
cementer
chemical services operator
coiled tubing operator
derrickman/woman
formation fracturing operator
motorman/woman
nitrogen operator
pumper operator
pumpman/woman

Main duties

Oil and gas well drilling workers perform some or all of the following duties:

- Align and manipulate sections of pipe or drill stem from a platform on the rig derrick during the removal and replacement of strings of pipe, or drill stem and drill bit
- Operate and maintain drilling mud systems and pumps during drilling, and mix mud chemicals and additives
- Record mud flows and volumes and take samples
- Operate and maintain drilling rig diesel motors, transmissions and other mechanical equipment
- Assist in setting up, taking down and transporting drilling and service rigs
- Supervise floorhands and labourers.

Oil and gas well services operators perform some or all of the following duties:

- Drive well services truck to well site
- Assemble pumping equipment and attach pumps and hoses to wellhead
- Operate hydraulic pumping systems to pump chemicals, gases, sand, cement or other material into well
- Read gauges to monitor pressure, density, rate and concentration and adjust pumping procedure as required
- May mix chemicals and cements.

Employment requirements

- Completion of secondary school is required.
- Training of up to three months with an experienced operator is required for oil and gas well services operators.
- One year of experience as a floorhand, assistant or labourer is usually required.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), cryogenic safety or in other safety concerns may be required.

Additional information

- Progression to oil and gas well driller or service rig operator is possible with experience.
- Progression to supervisor of well services is possible for gas and oil well services operators.

Classified elsewhere

- *Oil and Gas Drilling, Servicing and Related Labourers* (8615)
- *Oil and Gas Well Drillers, Servicers, Testers and Related Workers* (8232)
- *Supervisors, Oil and Gas Drilling and Service* (8222)

8421 Chainsaw and Skidder Operators

Chainsaw and skidder operators operate chain saws to fell, delimb and buck trees, and operate skidders to move or yard the felled trees from the logging site to the landing area for processing and transportation. They are employed by logging companies and contractors.

Examples of titles classified in this unit group

bucker
chainsaw operator
faller
feller
forest worker – logging
grapple skidder operator
landingman/woman
pieceworker – logging
skidder operator

Main duties

Chainsaw and skidder operators perform some or all of the following duties:

- Operate chain saw to fell, delimb and buck trees at the logging site and loading area
- Operate cable, or grapple skidder to move or yard the felled trees from the logging site to the landing area for processing and transportation
- Assess site, terrain and weather conditions before felling and yarding trees
- May work as member of a team rotating between chain saw operation and skidder operation
- May maintain and perform minor repairs on skidders, chain saws and other equipment.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college program for forest workers may be required.
- Formal training in chain saw operation and maintenance and several months of on-the-job training are usually provided.
- Previous experience as a logging and forestry labourer or logging machine operator may be required. Experience requirements vary depending on the type and location of woodlands operations.
- Provincial certification or a forest worker program certificate is required in some provinces.
- Trade certification for fallers is available, but voluntary in Quebec.
- Workplace hazardous materials information system (WHIMS) and St. John's first-aid certificates may be required.

Additional information

- There is a trend toward company certification of chainsaw operators in larger companies.
- Chainsaw operators often must own and maintain their own chain saw.
- There is some mobility among jobs within this unit group, because chainsaw and skidder operators often work in teams and rotate jobs.
- Mobility may be limited from eastern and central forest zones to western forest zones where tree size or steep terrain may require different cutting and yarding methods.
- Mobility is possible to logging machinery operators.

- Progression to supervisory positions or self-employment as a logging contractor is possible with experience.

Classified elsewhere

- *Logging and Forestry Labourers* (8616)
- Logging contractors and supervisors (in 8211 *Supervisors, Logging and Forestry*)
- *Logging Machinery Operators* (8241)
- *Silviculture and Forestry Workers* (8422)

8422 Silviculture and Forestry Workers

Silviculture and forestry workers perform a variety of duties related to reforestation and to the management, improvement and conservation of forest lands. They are employed by logging companies, contractors and government services.

Examples of titles classified in this unit group

clearing saw operator
forest fire fighter
forestry crew person
forestry worker
pieceworker – silviculture
scarification equipment operator
silviculture worker
spacing saw operator
thinning saw operator

Main duties

Silviculture and forestry workers perform some or all of the following duties:

- Assess site, select seedlings and plant trees using manual planting tools in reforestation areas
- Operate power thinning saw to thin and space trees in reforestation areas
- Operate chain saw to thin young forest stands
- Control weeds and undergrowth in regenerating forest stands using manual tools and chemicals
- Complete firefighting reports and maintain firefighting equipment
- Dig trenches, cut trees, pump water on burning areas to fight forest fires under direction of fire suppression officer or forestry technician
- Operate and maintain a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated
- Perform other silviculture duties such as collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college or other specialized program for silviculture workers or forestry crew workers may be required.
- Formal training in power saw operation and maintenance and several months of on-the-job training are usually provided.
- Experience as a logging and forestry labourer may be required.
- A chemicals application licence is required.
- Workplace hazardous materials information system (WHMIS) and transportation of dangerous goods (TDG) certificates may be required.
- A silvicultural worker's licence may be required.

Additional information

- There is some mobility among jobs in this unit group.
- Progression to supervisory positions is possible with experience.
- Progression to forestry technician or technologist is possible with additional education and training.

8422 Silviculture and Forestry Workers

Classified elsewhere

- Arborists (in 2225 *Landscape and Horticulture Technicians and Specialists*)
- *Chainsaw and Skidder Operators* (8421)
- Forest nursery workers (in 8432 *Nursery and Greenhouse Workers*)
- *Forestry Professionals* (2122)
- *Forestry Technologists and Technicians* (2223)
- *Logging and Forestry Labourers* (8616)
- *Supervisors, Logging and Forestry* (8211)

8431 General Farm Workers

General farm workers plant, cultivate and harvest crops, raise livestock and poultry and maintain and repair farm equipment and buildings. This group includes operators of farm machinery. General farm workers are employed on crop, livestock, fruit, vegetable and specialty farms.

Examples of titles classified in this unit group

beef cattle farm worker
cattle ranch labourer
dairy farm worker
farm machinery operator
general farm worker
grain farm worker
harvester machine operator
hatchery worker
poultry farm worker
vegetable farm worker

Main duties

General farm workers perform some or all of the following duties:

- Plant, fertilize, cultivate, spray, irrigate and harvest crops
- Feed and tend livestock and poultry
- Milk cows
- Operate and maintain farm machinery and equipment
- Detect disease and health problems in crops, livestock and poultry
- Examine produce for quality and prepare for market
- Set and monitor water lines, air flow and temperature in barns, pens and chicken coops
- Clean stables, barns, barnyards and pens.

General farm workers can become specialized in a particular type of crop or livestock production through experience.

Employment requirements

- There are no specific education or training requirements. However, a college certificate or specialized courses related to farming, such as farm equipment mechanics, agricultural welding, tree pruning and pesticide application, are available.
- Basic farm knowledge, usually obtained from working on a family farm, may be required for employment.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Agricultural and Related Service Contractors and Managers* (8252)
- *Farm Supervisors and Specialized Livestock Workers* (8253)
- *Farmers and Farm Managers* (8251)
- *Harvesting Labourers* (8611)

8432 Nursery and Greenhouse Workers

Nursery and greenhouse workers plant, cultivate and harvest trees, shrubs, flowers and plants, and serve nursery and greenhouse customers. They are employed in indoor and outdoor nurseries and greenhouses.

Examples of titles classified in this unit group

forest nursery worker
greenhouse worker
hothouse worker
hydroponics worker
nursery worker

Main duties

Nursery and greenhouse workers perform some or all of the following duties:

- Prepare soil; plant bulbs, seeds and cuttings; graft and bud plants; and transplant seedlings and rooted cuttings
- Spray trees, shrubs, flowers and plants to prevent disease and pests
- Position and regulate greenhouse and outdoor irrigation systems to water plants and fields
- Dig, cut and transplant trees, shrubs, flowers and plants and prepare them for sale
- Provide information to customers on gardening and the care of trees, shrubs, flowers, plants and lawns
- May operate tractors and other machinery and equipment to fertilize, cultivate, harvest and spray fields and plants
- Maintain inventory and order materials as required
- Clean working area.

Employment requirements

- Completion of secondary school may be required.
- Completion of college courses in horticulture or a related field may be required.
- On-the-job training is provided.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

Additional information

- Progression to supervisory positions such as greenhouse supervisor is possible with experience.

Classified elsewhere

- *General Farm Workers* (8431)
- *Harvesting Labourers* (8611)
- *Landscaping and Grounds Maintenance Labourers* (8612)
- *Nursery and Greenhouse Operators and Managers* (8254)
- *Silviculture and Forestry Workers* (8422)
- *Supervisors, Landscape and Horticulture* (8256)

8441 Fishing Vessel Deckhands

Fishing vessel deckhands perform a variety of manual tasks on commercial fishing voyages, and maintain fishing vessels. They are employed by establishments that operate commercial fishing vessels and by self-employed fishermen/women.

Examples of titles classified in this unit group

crewman/woman, fishing vessel
deckhand, seiner
fishing vessel deckhand
icer, fishing vessel
netmender, fishing vessel
trawlerman/woman

Main duties

Fishing vessel deckhands perform some or all of the following duties:

- Prepare nets, lines and other fishing tackle, and operate fishing gear to catch fish and other marine life
- Clean, sort and pack fish in ice and stow catch in hold
- Repair nets, splice ropes and maintain fishing gear and other deck equipment
- Clean deck surfaces and fish hold
- Handle mooring lines during docking
- May steer vessels to and from fishing areas
- May prepare and cook meals for crew members.

Employment requirements

- There are no specific educational requirements.
- On-the-job training is provided.
- Trawlermen/women require at least one year of experience.
- Fishing vessel deckhands require a commercial fishing licence.

Additional information

- Fishing vessel deckhands may progress to watchkeeper or mate positions with additional training.
- Fishing vessel deckhands may become skippers upon acquiring an entry licence and a boat.

Classified elsewhere

- *Deck Officers, Water Transport* (2273)
- *Fishing Masters and Officers* (8261)
- *Fishing Vessel Skippers and Fishermen/women* (8262)

8442 Trappers and Hunters

Trappers and hunters trap and hunt wild animals for pelts or live sale. They are usually self-employed and work on a seasonal basis.

Examples of titles classified in this unit group

fur trapper
game trapper
hunter
sealer
trapper

Main duties

Trappers perform some or all of the following duties:

- Set traps with bait and position traps along trails
- Operate snowmobile or travel on foot, snowshoes or skis to patrol trapline
- Remove catch and reset traps and snares
- Kill and skin catch for pelts, and treat and pack pelts for marketing
- Trap live animals for sale to buyers or for relocation purposes
- Maintain and repair trapping equipment
- Maintain trails and access to trapping lines
- Trap designated animals for bounty or other control programs
- May monitor animal population in the trapping regions to ensure future sustainability.

Hunters perform some or all of the following duties:

- Operate boat or snowmobile or travel on foot to reach hunting area
- Kill wild animals using firearms or other weapons
- Skin dead animals for pelts using knives
- Treat, pack and transport pelts to processing plants or to public auctions
- Maintain hunting equipment
- May monitor animal population in the hunting regions to ensure future sustainability.

Trappers and hunters may specialize in trapping or hunting a particular kind of animal.

Employment requirements

- Completion of trapping or hunting courses may be required in some provinces.
- A provincial trapping or hunting licence may be required.

Additional information

- In some jurisdictions, trappers may be allocated trapping areas based on the amount of their experience.

Classified elsewhere

- Animal control trappers or nuisance control trappers (in 7444 *Pest Controllers and Fumigators*)
- Hunting guides (in 6442 *Outdoor Sport and Recreation Guides*)

8611 Harvesting Labourers

Harvesting labourers assist other farm workers to harvest, sort and pack crops.

Examples of titles classified in this unit group

apple picker
berry picker
crop farm labourer
fruit picker
harvest hand
tobacco picker
vegetable packer

Main duties

Harvesting labourers perform some or all of the following duties:

- Pick row and orchard crops
- Sort, weigh and pack fruit and vegetables at farm
- Load, unload and transfer crates, supplies and farm produce, livestock and poultry
- Clean up racks, trays, growing and packaging areas.

Employment requirements

- There are no specific education or training requirements.

Additional information

- Progression to other farm worker positions is possible with experience.

Classified elsewhere

- *Farm Supervisors and Specialized Livestock Workers* (8253)
- *Farmers and Farm Managers* (8251)
- *General Farm Workers* (8431)

8612 Landscaping and Grounds Maintenance Labourers

Landscaping and grounds maintenance labourers perform manual work to assist in the construction of a landscape and related structures and to maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, landscaped interiors and other landscaped areas. They are employed by landscaping and lawn care companies, golf courses, cemeteries, and by landscaping departments of governments and private establishments.

Examples of titles classified in this unit group

bulb planter
cemetery labourer
gardening helper
golf course worker
grass cutter
grounds maintenance worker
landscape labourer
maintenance worker, parks
sod layer
transplanter

Main duties

Landscaping and grounds maintenance labourers perform some or all of the following duties:

- Spread top soil, lay sod, plant flowers, grass, shrubs and trees and perform other duties to assist with the construction of a landscape and related structures
- Cut grass, rake, fertilize and water lawns, weed gardens, prune shrubs and trees and perform other maintenance duties as directed by supervisor
- Operate power mowers, tractors, snowblowers, chain saws, electric clippers, sod cutters, pruning saws and other landscape maintenance equipment
- Spray and dust trees, shrubs, lawns and gardens, as directed, to control insects and disease
- Perform other manual duties to clean and maintain landscaped environments.

Employment requirements

- Some secondary school education may be required
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

Additional information

- Progression to technical or supervisory occupations in landscaping and horticulture is possible with additional training or experience.

Classified elsewhere

- *Landscape and Horticulture Technicians and Specialists* (2225)
- *Nursery and Greenhouse Workers* (8432)
- *Residential and Commercial Installers and Servicers* (7441)
- *Supervisors, Landscape and Horticulture* (8256)

8613 Aquaculture and Marine Harvest Labourers

This occupational group includes aquaculture support workers, marine plant gatherers, shellfish diggers and other labourers in aquaculture and fishing. Aquaculture support workers are employed by public or private fish hatcheries and commercial aquatic farms. Marine plant gatherers and shellfish harvesters may be self-employed.

Examples of titles classified in this unit group

aquaculture support worker
clam digger
dulse gatherer
fish farm helper
fish tagger
fry marker
marine plant gatherer
oyster picker
sea farm attendant
seaweed gatherer
shellfish harvester

Main duties

Aquaculture support workers perform some or all of the following duties:

- Assist aquaculture technicians in operation of a fish hatchery or other aquatic farm
- Feed aquaculture stocks, vaccinate stocks, perform culling and marking or banding techniques and report any observed irregularities in stock
- Operate, maintain and clean pumps, filters, tanks and other aquaculture equipment and clean and maintain aquaculture enclosures
- Keep daily records of water flow and fish samples
- Grade and weigh aquaculture stocks
- Prepare aquaculture stocks for market
- Operate boats, if necessary, in marine aquaculture operations.

Marine plant gatherers perform some or all of the following duties:

- Rake seaweed, dulse or irish moss from beach, rocks or shallow water and load into a cart, wagon or other receptacles
- Spread gatherings to dry and remove foreign objects
- Transport gatherings to processing plant.

Shellfish harvesters perform some or all of the following duties:

- Dig clams from beds with spade, fork or other instrument, or pick oysters
- Clean, sort and transport shellfish to market.

Employment requirements

- Some secondary school education is usually required.
- Shellfish harvesters require commercial fishing licences.

Classified elsewhere

- *Aquaculture Operators and Managers* (8257)
- *Fishing Vessel Deckhands* (8441)
- *Fishing Vessel Skippers and Fishermen/women* (8262)

8614 Mine Labourers

Mine labourers carry out a variety of general labouring duties to assist in the extraction of coal, minerals and ore, and in other services in support of underground mining. They are employed by coal, metal and non-metallic mineral mines.

Examples of titles classified in this unit group

chute puller
mine helper
mine labourer
pit scaler – underground mining
shoveller – underground mining
underground labourer – mining

Main duties

Mine labourers perform some or all of the following duties:

- Assist other mine workers in maintaining or constructing underground installations
- Clean underground rooms, roadways, working areas and mining equipment and conveyances using hand tools
- Load, move, sort and pile materials and supplies
- Clear spills of ore or coal using hand and power tools.

Employment requirements

- Completion of secondary school is usually required.
- A short period of introductory training is provided.
- Mine labourers are registered in the basic common core program in Ontario.

Additional information

- There is mobility among jobs in this group.
- Progression to underground production and development miner or underground mine service and support worker is possible with experience and training.

Classified elsewhere

- *Underground Mine Service and Support Workers* (8411)
- *Underground Production and Development Miners* (8231)

8615 Oil and Gas Drilling, Servicing and Related Labourers

Labourers in this unit group carry out a variety of general labouring duties and operate equipment to assist in the drilling and servicing of oil and gas wells. This unit group also includes labourers who assist in geophysical prospecting for oil and gas. They are employed by drilling and well servicing contractors and by petroleum producing companies.

Examples of titles classified in this unit group

floorman/woman
helper, wireline
labourer, oil field
leasehand
roughneck
roustabout
service rig helper
shakerhand
well treatment helper

Main duties

Labourers in this unit group perform some or all of the following duties:

- Manipulate sections of pipe or drill stem at the rig floor during drilling and during the removal and replacement of strings of pipe or drill stem and drill bit
- Maintain drilling equipment on the drill floor
- Handle, sort and move drill tools, pipe, cement and other materials
- Clean up rig area
- Assist in setting up, taking down and transporting drilling and service rigs and service equipment
- May drive truck to transport materials and well service equipment.

Employment requirements

- Completion of secondary school may be required.
- Completion of introductory college or Petroleum Industry Training Service (PITS) courses may be required.
- Certificates in hydrogen sulphide awareness, workplace hazardous materials information system (WHMIS) or transportation of dangerous goods (TDG) may be required.

Additional information

- Progression to more senior operating positions is possible with experience.

Classified elsewhere

- *Oil and Gas Well Drillers, Servicers, Testers and Related Workers* (8232)
- *Oil and Gas Well Drilling Workers and Services Operators* (8412)

8616 Logging and Forestry Labourers

Logging and forestry labourers perform a variety of manual tasks such as attaching choker cables to logs, planting trees, clearing brush, spraying chemicals, cleaning up landing areas and assisting other workers in woodlands operations. They are employed by logging companies and contractors.

Examples of titles classified in this unit group

chokerman/woman
forestry labourer
logging labourer
swamper – logging and forestry
tree planter, seasonal

Main duties

Logging and forestry labourers perform some or all of the following duties:

- Assist other workers at logging sites
- Attach chokers or cables to felled trees for yarding
- Plant trees using manual tools
- Spray herbicides from the ground using manual spraying equipment
- Clear trails through woodlands using chain saws
- Clean up landing areas at logging sites.

Employment requirements

- Completion of secondary school may be required.
- Completion of pre-employment safety courses may be required.
- Several weeks of formal and on-the-job training are provided.
- Workplace hazardous materials information system (WHMIS) certificate may be required.
- Chemicals application licence may be required.

Additional information

- There is mobility among jobs in this unit group.
- Progression to other positions, such as silviculture and forestry worker, chain saw and skidder operator or logging machinery operator is possible with experience.

Classified elsewhere

- *Chainsaw and Skidder Operators* (8421)
- *Logging Machinery Operators* (8241)
- *Silviculture and Forestry Workers* (8422)

OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

Major Group 92

PROCESSING, MANUFACTURING AND UTILITIES SUPERVISORS AND SKILLED OPERATORS

921 Supervisors, Processing Occupations

9211 Supervisors, Mineral and Metal Processing
9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities
9213 Supervisors, Food, Beverage and Tobacco Processing
9214 Supervisors, Plastic and Rubber Products Manufacturing
9215 Supervisors, Forest Products Processing
9216 Supervisors, Textile Processing

922 Supervisors, Assembly and Fabrication

9221 Supervisors, Motor Vehicle Assembling
9222 Supervisors, Electronics Manufacturing
9223 Supervisors, Electrical Products Manufacturing
9224 Supervisors, Furniture and Fixtures Manufacturing
9225 Supervisors, Fabric, Fur and Leather Products Manufacturing
9226 Supervisors, Other Mechanical and Metal Products Manufacturing
9227 Supervisors, Other Products Manufacturing and Assembly

923 Central Control and Process Operators in Manufacturing and Processing

9231 Central Control and Process Operators, Mineral and Metal Processing
9232 Petroleum, Gas and Chemical Process Operators
9233 Pulping Control Operators
9234 Papermaking and Coating Control Operators

Major Group 94-95

PROCESSING AND MANUFACTURING MACHINE OPERATORS AND ASSEMBLERS

941 Machine Operators and Related Workers in Metal and Mineral Products Processing

9411 Machine Operators, Mineral and Metal Processing
9412 Foundry Workers
9413 Glass Forming and Finishing Machine Operators and Glass Cutters
9414 Concrete, Clay and Stone Forming Operators
9415 Inspectors and Testers, Mineral and Metal Processing

942 Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing

9421 Chemical Plant Machine Operators
9422 Plastics Processing Machine Operators
9423 Rubber Processing Machine Operators and Related Workers
9424 Water and Waste Plant Operators

943 Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing

9431 Sawmill Machine Operators
9432 Pulp Mill Machine Operators
9433 Papermaking and Finishing Machine Operators
9434 Other Wood Processing Machine Operators
9435 Paper Converting Machine Operators
9436 Lumber Graders and Other Wood Processing Inspectors and Graders

944 Machine Operators and Related Workers in Textile Processing

9441 Textile Fibre and Yarn Preparation Machine Operators
9442 Weavers, Knitters and Other Fabric-Making Occupations
9443 Textile Dyeing and Finishing Machine Operators
9444 Textile Inspectors, Graders and Samplers

945 Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing

9451 Sewing Machine Operators
9452 Fabric, Fur and Leather Cutters
9453 Hide and Pelt Processing Workers
9454 Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

946 Machine Operators and Related Workers in Food, Beverage and Tobacco Processing

9461 Process Control and Machine Operators, Food and Beverage Processing
9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
9463 Fish Plant Workers
9464 Tobacco Processing Machine Operators
9465 Testers and Graders, Food and Beverage Processing

947 Printing Machine Operators and Related Occupations

9471 Printing Machine Operators
9472 Camera, Platemaking and Other Pre-Press Occupations
9473 Binding and Finishing Machine Operators
9474 Photographic and Film Processors

948 Mechanical, Electrical and Electronics Assemblers

9481 Aircraft Assemblers and Aircraft Assembly Inspectors
9482 Motor Vehicle Assemblers, Inspectors and Testers
9483 Electronics Assemblers, Fabricators, Inspectors and Testers
9484 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
9486 Mechanical Assemblers and Inspectors
9487 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

949 Other Assembly and Related Occupations

9491 Boat Assemblers and Inspectors
9492 Furniture and Fixture Assemblers and Inspectors
9493 Other Wood Products Assemblers and Inspectors
9494 Furniture Finishers and Refinishers
9495 Plastic Products Assemblers, Finishers and Inspectors
9496 Painters and Coaters – Industrial
9497 Plating, Metal Spraying and Related Operators
9498 Other Assemblers and Inspectors

951 Machining, Metalworking, Woodworking and Related Machine Operators

9511 Machining Tool Operators
9512 Forging Machine Operators
9513 Woodworking Machine Operators
9514 Metalworking Machine Operators
9516 Other Metal Products Machine Operators
9517 Other Products Machine Operators

Major Group 96
LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

961 Labourers in Processing, Manufacturing and Utilities

9611 Labourers in Mineral and Metal Processing
9612 Labourers in Metal Fabrication
9613 Labourers in Chemical Products Processing and Utilities
9614 Labourers in Wood, Pulp and Paper Processing
9615 Labourers in Rubber and Plastic Products Manufacturing
9616 Labourers in Textile Processing
9617 Labourers in Food, Beverage and Tobacco Processing
9618 Labourers in Fish Processing
9619 Other Labourers in Processing, Manufacturing and Utilities

9211 Supervisors, Mineral and Metal Processing

Supervisors, mineral and metal processing, supervise and co-ordinate the activities of workers in the following unit groups: *Central Control and Process Operators, Mineral and Metal Processing* (9231), *Machine Operators and Related Workers in Metal and Mineral Products Processing* (941) and *Labourers in Mineral and Metal Processing* (9611). They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminium plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Examples of titles classified in this unit group

blast furnace foreman/woman
brick and tile foreman/woman
cement processing supervisor
coremaking foreman/woman
die casting supervisor
foreman/woman, lead refining
lime preparation foreman/woman
melting and roasting department supervisor
ore milling supervisor
roll shop operations coach – steel mill
shift co-ordinator – steel mill
supervisor, glass cutters

Main duties

Supervisors mineral and metal processing perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers engaged in the following duties: operating single or multi-function mineral and metal processing machinery and equipment; operating mouldmaking and coremaking machines or manually make moulds and cores; operating glass process control, forming and finishing machines; operating concrete, clay and stone forming and finishing machines; and operating cement process control and machines and equipment
- Establish methods to meet work schedules and co-ordinate work activities with units
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in metallurgy, sciences or a related field may be required for some occupations in this unit group.
- Several years of experience as a worker in the unit or department being supervised are usually required.

Classified elsewhere

- *Supervisors, Mining and Quarrying* (8221)
- *Supervisors, Other Mechanical and Metal Products Manufacturing* (9226)

9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Petroleum, Gas and Chemical Process Operators* (9232), *Chemical Plant Machine Operators* (9421), *Labourers in Chemical Products Processing and Utilities* (9613), *Water and Waste Plant Operators* (9424), *Stationary Engineers and Auxiliary Equipment Operators* (7351) and *Power Systems and Power Station Operators* (7352). They are employed by petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, water and waste treatment utilities and in a range of other industries and institutions.

Examples of titles classified in this unit group

chemical processing supervisor
foreman/woman, chemical
foreman/woman, cosmetics processing
foreman/woman, natural gas plant
foreman/woman, water purification plant
paint processing foreman/woman
production supervisor, pharmaceuticals
production supervisor, specialty chemicals
steam engineer leader
supervisor, petroleum refining
supervisor, pipeline operation
supervisor, power station
supervisor, sewage treatment plant

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate petroleum refineries, chemical plants, water and waste disposal plants and equipment, pipelines, heating plants and power stations and systems
- Identify, investigate, correct and document potential environmental and safety problems
- Establish methods to meet work schedules and co-ordinate work activities with other units
- Resolve work problems and recommend measures to improve productivity and product quality
- Provide information for maintenance plans to ensure that maintenance and production objectives are met
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports and develop and manage operating budget for area of responsibility
- May also supervise, co-ordinate and schedule the activities of trades workers, labourers or other workers.

Employment requirements

- Completion of secondary school is required.
- Post-secondary education in chemical processing or sciences may be required for some occupations in this unit group.
- Several years of experience as a senior operator in the same company or plant are usually required.
- Some occupations in this unit group may require a specific licence or certification, such as a stationary engineer's licence or refrigeration certification.

Additional information

- There is some mobility between occupations with similar technological or licensing requirements within this group.

Classified elsewhere

- Supervisors of telecommunications workers, power utility electricians and power line workers (in 7212 *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations*)

9213 Supervisors, Food, Beverage and Tobacco Processing

Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing machines, and package or grade food, beverage and tobacco products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and tobacco processing establishments.

Examples of titles classified in this unit group

brewer supervisor
foreman/woman, poultry graders
HACCP co-ordinator – food processing
packaging supervisor
production supervisor – food and beverage processing
supervisor, bottling
supervisor, fish processing
supervisor, food product testers
supervisor, meat packing
supervisor, tobacco processing
supervisor, vegetable packing
team supervisor, flour milling

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who process, package, test and grade food, beverage and tobacco products
- Establish methods to meet work schedules and co-ordinate work activities with other units
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in microbiology or chemistry may be required for some positions in this group.
- Several years of experience in the food, beverage or tobacco processing industry are required.
- Hazard analysis critical control point co-ordinators require HACCP certification and several years' experience in quality assurance of food production.

Classified elsewhere

- *Machine Operators and Related Workers in Food, Beverage and Tobacco Processing* (946)
- Managers of food, beverage and tobacco processing (in 0911 *Manufacturing Managers*)
- Supervisors of meat and fish inspectors (in 2222 *Agricultural and Fish Products Inspectors*)

9214 Supervisors, Plastic and Rubber Products Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing machines and who fabricate, assemble and inspect rubber or plastic products. They are employed by rubber and plastic products manufacturing companies and in plastic parts divisions of other manufacturing companies.

Examples of titles classified in this unit group

foreman/woman, blow moulding
foreman/woman, calendering – rubber and plastic manufacturing
foreman/woman, extruding – rubber and plastic manufacturing
supervisor, injection moulding – plastic products manufacturing
supervisor, plastic products manufacturing
supervisor, rubber products manufacturing
supervisor, tire building

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of production workers who operate processing machines and who fabricate, assemble, finish or inspect plastic or rubber parts and products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in sciences or plastics technology may be required for some positions in this group.
- Several years of experience as a machine operator or an assembler in rubber or plastic products manufacturing is usually required.

Classified elsewhere

- *Labourers in Rubber and Plastic Products Manufacturing* (9615)
- *Plastic Products Assemblers, Finishers and Inspectors* (9495)
- *Plastics Processing Machine Operators* (9422)
- *Rubber Processing Machine Operators and Related Workers* (9423)

Supervisors, Forest Products Processing

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Pulping Control Operators* (9233), *Papermaking and Coating Control Operators* (9234), *Labourers in Wood, Pulp and Paper Processing* (9614), and *Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing* (943). They are employed by pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Examples of titles classified in this unit group

coating room foreman/woman – pulp and paper
foreman/woman, lumber grading
foreman/woman, plywood making
foreman/woman, shingle mill
foreman/woman, waferboard
foreman/woman, wood treating plant
paper machine foreman/woman
paper mill foreman/woman
pulp mill foreman/woman
sawmill foreman/woman
shift operating supervisor – pulp and paper
supervisor, paper converting
tour foreman/woman – pulp and paper

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate pulp and paper mills, paper converting mills, sawmills, planing mills, plywood, waferboard and other wood and paper products mills
- Ensure that systems and equipment are operating efficiently and that proper maintenance and repairs are performed
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions and administer the collective agreement
- Prepare production and other reports
- Monitor safety conditions
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is required.
- A college diploma in pulp and paper technology or a related discipline may be required for some pulp and paper supervisor positions.
- Several years of some combination of formal and on-the-job training are provided.
- Several years of experience in the most senior occupation supervised are often required.
- Certificates, such as lumber grading and industrial first-aid, and a competency certificate in natural gas may be required.

Additional information

- Progression to managerial positions is possible with experience.
- Mobility is possible between positions employing similar technology or producing similar products.

Classified elsewhere

- *Manufacturing Managers* (0911)

9216 Supervisors, Textile Processing

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in processing fibre into yarn or thread; weaving, knitting or fabricating textile products; bleaching, dyeing and finishing textile products; and inspecting textile products. They are employed by textile companies.

Examples of titles classified in this unit group

dye room supervisor
finishing supervisor – textiles
foreman/woman – textile processing
spinning supervisor – textiles
supervisor, knitting
tufting supervisor – textiles
weave room supervisor

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of production workers who operate machines to process fibre, yarn, thread and textiles; and bleach, dye, finish or inspect textiles
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in textile technology or a related field may be required for some positions in this group.
- Several years of experience as a textile machinery mechanic or repairer, textile technician or operator in a process such as weaving, tufting or dyeing are usually required.
- Experience may be required in a specific process or with a specific type or model of equipment.

Additional information

- There is mobility among jobs in this group.
- Progression to managerial positions is possible with experience.

Classified elsewhere

- *Machine Operators and Related Workers in Textile Processing* (944)
- Master dyers and textile colour technologists (in 2211 *Chemical Technologists and Technicians*)
- Supervisors in clothing and apparel manufacturing (in 9225 *Supervisors, Fabric, Fur and Leather Products Manufacturing*)
- Technologists and technicians in textile manufacturing (in 2233 *Industrial Engineering and Manufacturing Technologists and Technicians*)
- *Textile Machinery Mechanics and Repairers* (7317)

9221 Supervisors, Motor Vehicle Assembling

Supervisors in this unit group supervise and co-ordinate the activities of workers in motor vehicle production departments. They are employed in plants which manufacture automobiles, vans and light trucks.

Examples of titles classified in this unit group

area co-ordinator – motor vehicle manufacturing
assembly foreman/woman – motor vehicle manufacturing
foreman/woman – motor vehicle manufacturing
general supervisor, assembly – motor vehicle manufacturing
supervisor, assembly – motor vehicle manufacturing
zone supervisor, assembly – motor vehicle manufacturing

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers in motor vehicle manufacturing production departments such as body shop, chassis, paint, trim and hardware and final assembly
- Establish methods to meet work schedules and co-ordinate work activities with other units
- Resolve work problems and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Requisition materials and supplies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in engineering, sciences, business or other related discipline is usually required.
- Several years of experience as a production worker in motor vehicle manufacturing are required.

Additional information

- Progression to managerial positions is possible with experience.

Classified elsewhere

- *Motor Vehicle Assemblers, Inspectors and Testers* (9482)
- Supervisors of engine assemblers (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

[illegible] Supervisors, Electronics Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who assemble, fabricate, test, repair and inspect electronic parts, components and systems. They are employed in electronics manufacturing plants.

Examples of titles classified in this unit group

assembly supervisor
foreman/woman, electronic assembly
foreman/woman, final assembly and test
foreman/woman, printed circuit board fabrication
production supervisor – electronics manufacturing
supervisor, assembly and test
systems test foreman/woman
test supervisor

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who assemble, fabricate, inspect and test electronic and electromechanical assemblies, subassemblies, parts and components
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies and recommend personnel actions such as hirings and promotions
- Ensure safety rules and regulations are followed
- Prepare production and other reports
- May set up machines and equipment
- Supervise, co-ordinate and schedule the activities of related helpers and labourers.

Employment requirements

- Completion of secondary school is required.
- Several years of experience as an electronics assembler, fabricator, inspector or tester are usually required.
- Post-secondary education in electronics or a related discipline is required.

Classified elsewhere

- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Electronic Service Technicians (Household and Business Equipment)* (2242)
- *Electronics Assemblers, Fabricators, Inspectors and Testers* (9483)
- *Supervisors, Electrical Products Manufacturing* (9223)

9223 Supervisors, Electrical Products Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who assemble, fabricate and inspect electrical components, appliances, motors and industrial equipment. They are employed by companies that manufacture electrical products.

Examples of titles classified in this unit group

foreman/woman, electrical motor assembly
foreman/woman, electrical transformer assembly
foreman/woman, switchgear assembly
supervisor, electrical appliance assembly
supervisor, electrical equipment manufacturing

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who assemble, fabricate and inspect various types of electrical apparatus and equipment such as electrical appliances, batteries, electric motors, transformers and generators and electrical switchgear and control equipment
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in electrical or manufacturing technology or other related discipline may be required for some positions in this group.
- Several years of experience as an assembler, inspector or lead hand are required.

Classified elsewhere

- *Contractors and Supervisors, Electrical Trades and Telecommunications Occupations* (7212)
- *Supervisors, Electronics Manufacturing* (9222)

9224 Supervisors, Furniture and Fixtures Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who manufacture furniture and fixtures made of wood or other materials. They are employed in furniture and fixtures manufacturing establishments.

Examples of titles classified in this unit group

foreman/woman, desk assembly
foreman/woman, furniture assembly
laminating foreman/woman
supervisor, furniture and fixture manufacturing
supervisor, furniture finishers
supervisor, woodworking machine operators
woodworking machine operators foreman/woman

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who assemble furniture and fixtures of any materials, operate woodworking machines and finish furniture to specified colour or finish
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a furniture and fixture assembler, woodworking machine operator, cabinetmaker or furniture finisher, is usually required.

Classified elsewhere

- Supervisors of millwork and wood product manufacturing other than furniture and fixture, and wood machining (in 9227 *Supervisors, Other Product Manufacturing and Assembly*)

9225 Supervisors, Fabric, Fur and Leather Products Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: *Sewing Machine Operators* (9451), *Fabric, Fur and Leather Cutters* (9452), *Hide and Pelt Processing Workers* (9453) and *Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing* (9454). They are employed by clothing and textile manufacturers, tanneries and other manufacturers of fabric products.

Examples of titles classified in this unit group

boot and shoe foreman/woman
canvas products manufacturing foreman/woman
cutting department foreman/woman, fabric
embroidery supervisor – fabric products
fur dressing foreman/woman
hat and cap maker foreman/woman
sample room foreman/woman, leather products
sewing machine operators supervisor
stitching department supervisor
tannery foreman/woman

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who cut or stitch fabric, fur or leather garments and other products in the manufacturing process
- Establish methods to meet work schedules and co-ordinate work activities with other units
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a worker in the unit group being supervised are required.

Additional information

- There is little mobility among the various types of supervisors in this group.

Classified elsewhere

- *Supervisors, Textile Processing* (9216)
- *Tailors, Dressmakers, Furriers and Milliners* (7342)

9226 Supervisors, Other Mechanical and Metal Products Manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who fabricate, assemble and inspect mechanical and metal products, such as aircraft and aircraft parts, heavy trucks, buses, trailers, motor vehicle engines, transmissions, heating equipment, commercial refrigeration and similar metal products. They are employed by a wide variety of manufacturing companies.

Examples of titles classified in this unit group

aircraft assembly foreman/woman
engine assembly foreman/woman (except aircraft)
foreman/woman, metalworking machine operators
foreman/woman, mobile home assembly
shipyard painter foreman/woman
supervisor, helicopter assembly
supervisor, snowmobile assembly
truck trailer assembly foreman/woman

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule activities of workers who assemble and inspect products such as aircraft, buses, heavy trucks, transmissions, automobile engines and refrigeration and heating equipment
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machinery and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education may be required for some occupations in this group.
- Several years of experience as an assembler or inspector in the same company are usually required.

Classified elsewhere

- Aircraft engine assembly and machine fitters' supervisors (in 7216 *Contractors and Supervisors, Mechanic Trades*)
- *Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades* (7214)
- *Supervisors, Electrical Products Manufacturing* (9223)
- *Supervisors, Motor Vehicle Assembling* (9221)

9227 Supervisors, Other Products Manufacturing and Assembly

This unit group includes supervisors, not elsewhere classified, who supervise and co-ordinate the activities of workers who assemble, fabricate and inspect a variety of products, such as jewellery, clocks and watches, millwork, sporting goods, toys and other miscellaneous products. They are employed in a wide variety of manufacturing companies.

Examples of titles classified in this unit group

foreman/woman, bicycle assembly
foreman/woman, clock and watch assembly
foreman/woman, jewellery manufacturing
supervisor, millwork assembly
supervisor, silverware manufacturing
supervisor, sports equipment assembly
supervisor, toy manufacturing

Main duties

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule activities of workers who assemble, fabricate and inspect products, such as jewellery, clocks, watches, bicycles, millwork, sporting goods and toys
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machinery and equipment.

Employment requirements

- Completion of secondary school may be required.
- Several years of experience as an assembler or inspector in the same company are usually required.

Additional information

- There is little mobility between different types of supervisors in this unit group.

Classified elsewhere

- Supervisors of woodworking machine operators (in 9224 *Supervisors, Furniture and Fixtures Manufacturing*)

9231 Central Control and Process Operators, Mineral and Metal Processing

Central control and process operators, mineral and metal processing, operate and monitor multi-function process control machinery and equipment to control the processing of mineral ores, metals or cement. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminium plants, precious metal refineries and cement processing plants.

Examples of titles classified in this unit group

blast furnace operator
central control caster
central control room operator
chief flotation operator
console operator – cement manufacturing
pelletizing control operator
roaster operator
rolling mill control operator

Main duties

Central control and process operators, mineral and metal processing, perform some or all of the following duties:

- Co-ordinate and monitor the operation of a particular aspect of mineral ore, metal and cement processing production through control panels, computer terminals or other control systems, usually from a central control room
- Operate multi-function central process control machinery to grind, separate, filter, melt, roast, treat, refine or otherwise process mineral ores
- Observe computer printouts, video monitors and gauges to verify specified processing conditions and to make necessary adjustments
- Co-ordinate and supervise production crew such as machine and process operators, tenders, assistants and helpers
- Start up and shut down the production system in cases of emergency or as required by schedule
- Provide or organize training for members of production crew
- Maintain shift log of production and other data and prepare production and other reports.

Employment requirements

- Completion of secondary school is required.
- A college diploma may be required for some positions in this group.
- On-the-job training is provided.
- Several years of experience as a machine or process operator, usually in the same company or production department, are required.

Additional information

- There is little mobility among the various types of central control and process operators within the mineral and metal processing industry.
- With experience, central control and process operators may progress to supervisory positions in mineral and metal processing.

Classified elsewhere

- Foundry furnace operators and casters (in 9412 *Foundry Workers*)
- *Machine Operators, Mineral and Metal Processing* (9411)
- *Supervisors, Mineral and Metal Processing* (9211)

9232 Petroleum, Gas and Chemical Process Operators

Petroleum, gas and chemical process operators monitor and operate petroleum, petrochemical and chemical plants and monitor, adjust and maintain processing units and equipment in these plants. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies, industrial, agricultural and specialty chemical and pharmaceutical companies.

Examples of titles classified in this unit group

acid plant operator
cell room operator, chlor-alkali plant
chemical process operator
chief operator – chemical processing
fractionator operator
gas field operator
gas plant operator
gas recovery operator
lead operator – chemical processing
liquefaction plant operator
master operator – chemical processing
panel operator – chemical processing
petroleum process operator
pharmaceutical processing operator
pipeline compressor station operator
process technician
refinery operator
senior operating technician
senior operator – chemical processing

Main duties

Petroleum, gas and chemical process operators perform some or all of the following duties:

- Operate electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units
- Control process start-up, shut-down and troubleshooting
- Monitor outside process equipment
- Adjust equipment, valves, pumps and controls and process equipment
- Authorize or co-sign maintenance work orders
- Shut down, isolate and prepare process units or production equipment for maintenance
- Sample products, perform tests, record data, carry out statistical process control on process operations, and write production logs
- Develop operator procedures for normal operation, start-up or shut-down of unit
- Participate in safety audits and programs and provide emergency response when required
- Ensure adherence to safety and environmental regulations
- May rotate between different processing units during shift cycles
- May work in a team with shared supervisory responsibilities and participate in training other workers
- May be cross-trained in a skilled trade and work in the trade during shift cycles.

Employment requirements

- Completion of secondary school is required. Mathematics, chemistry and physics subjects are often specified.
- A college diploma in process operation, sciences or a related subject may be required for some positions.
- Petroleum and chemical process operators and process technicians require completion of several years of formal company training.
- Experience as a petroleum or chemical process operator in all the operating units controlled by the central control room is required for chief operators.
- Company certification as a petroleum process operator or technician may be required.
- A provincial stationary engineer licence, compressor operator or refrigeration certificate may be required when certain kinds of equipment are included in the process.
- Certification in the transportation of dangerous goods (TDG), first aid, firefighting, or workplace hazardous materials information system (WHMIS) may be required.

Additional information

- There is considerable mobility among jobs within a company, often as part of a formal development or training program.
- Mobility to other petroleum or chemical processing plants is possible, but may be limited by the usual practice of training and promoting workers from within the establishment.
- Occupations in this unit group may involve exposure to hazards of toxic, flammable or explosive chemicals and personal protective equipment may be required.
- Progression to supervisory or managerial positions is possible with experience.

Classified elsewhere

- *Chemical Plant Machine Operators* (9421)
- *Supervisors, Petroleum, Gas and Chemical Processing and Utilities* (9212)

9233 Pulping Control Operators

Pulping control operators operate and monitor multi-function process control machinery and equipment to control the processing of wood, scrap pulp, recyclable paper and other cellulose materials in the production of pulp. They are employed by pulp and paper companies.

Examples of titles classified in this unit group

bleach plant operator
cook – pulp and paper
digester operator
pulping control operator
pulping group operator – pulp and paper
pulping technician
thermomechanical pulp operator

Main duties

Pulping control operators perform some or all of the following duties:

- Co-ordinate and monitor the operation of screening equipment, washing equipment, digesters, mixing tanks and other pulp processing equipment from automated panel boards in central control room to control the processing of wood, scrap pulp, recyclable paper and other cellulose materials
- Observe panel indicators, gauges, video monitors and other instruments from central control room to detect equipment malfunctions and ensure pulp processes are operating within prescribed production limits
- Analyze instrument readings and production test samples and make adjustments, or direct pulp machine operators to make adjustments to pulp production process and equipment as required
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is required.
- A college or other program in forest products processing or a related subject may be required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Several years of experience as a pulp mill machine operator within the same company is usually required.
- A certificate in industrial first aid may be required.

Additional information

- There is limited mobility among jobs within this occupational group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Papermaking and Coating Control Operators* (9234)
- *Pulp Mill Machine Operators* (9432)
- *Supervisors, Forest Products Processing* (9215)

9234 Papermaking and Coating Control Operators

Papermaking and coating control operators operate and monitor multi-function process control machinery and equipment to control the processing of paper, paper pulp and paperboard. They are employed by pulp and paper companies.

Examples of titles classified in this unit group

back tender, paper machine
control operator, paper machine
fourdrinier machine operator
panelboard operator – pulp and paper
paper-coating machine operator
paper machine operator

Main duties

Papermaking and coating control operators perform some or all of the following duties:

- Operate, co-ordinate and monitor the operation of papermaking and papercoating process equipment from central control room or from machine consoles and control panels in equipment cabins to make paper from pulp stock, mix chemicals and dyes, and coat paper products
- Control process operations and machinery using a distributed control system and process computers
- Observe panel indicators, gauges, video monitors and other instruments to detect equipment malfunctions and ensure papermaking and coating processes are operating according to process specifications
- Analyze instrument readings and production test samples and make adjustments or direct other papermaking and finishing machine operators to make adjustments to papermaking and coating process and equipment as required
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Several years of experience as a papermaking and finishing machine operator within the same company is usually required.
- Certificate in industrial first aid may be required.
- Competency certificate in natural gas may be required.

Additional information

- There is limited mobility among jobs within this occupational group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Papermaking and Finishing Machine Operators* (9433)
- *Pulping Control Operators* (9233)
- *Supervisors, Forest Products Processing* (9215)

9411 Machine Operators, Mineral and Metal Processing

Workers in this unit group operate single-function machines or machinery that is part of a larger production process to process mineral ore and metal products. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants.

Examples of titles classified in this unit group

aluminum classifier
asbestos drier
billet heater
brick and tile crusher operator
cement miller
extrusion press operator
foil-winding machine operator
furnace charger
ladle pourer
lead refiner
lime kiln operator
mica sheet laminator
quenching car operator
scrap metal shredder
sintering machine operator
slurry equipment operator
steel roller
uranium classifier operator
zinc cell operator

Main duties

Machine operators, mineral and metal processing, perform some or all of the following duties:

- Set up, prepare and adjust mineral ore, metal and cement processing machinery to carry out one step in the overall mineral ore or metal processing operation
- Operate single-function machinery to grind, separate, filter, mix, treat, cast, roll, refine or otherwise process mineral ores
- Observe gauges, meters, computer printouts, video monitors and products to ensure correct operation of machine and verify specified processing conditions
- Make adjustments to machinery as required
- Record production information and complete reports
- May assist with machinery maintenance or repair.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Experience as a labourer in mineral and metal processing is usually required for machine operators.

Additional information

- There is little mobility among the various types of machine operators within the mineral and metal processing industry.
- With experience, machine operators may progress to central control and process operators in mineral and metal processing.

Classified elsewhere

- *Central Control and Process Operators, Mineral and Metal Processing* (9231)
- *Concrete, Clay and Stone Forming Operators* (9414)
- *Foundry Workers* (9412)
- *Glass Forming and Finishing Machine Operators and Glass Cutters* (9413)
- *Inspectors and Testers, Mineral and Metal Processing* (9415)
- *Labourers in Mineral and Metal Processing* (9611)

9412 Foundry Workers

This unit group includes workers who make foundry moulds and cores by hand or machine, cast molten metal, and operate furnaces in the foundry industry. They are employed by metal foundries and foundry departments of metal products manufacturing companies.

Examples of titles classified in this unit group

bench moulder
casting machine operator
ceramic mouldmaker
die-casting machine operator
foundry worker
furnace operator – foundry
machine coremaker
manual moulder
melter – foundry
metal caster
pit moulder
sand coremaker
sand moulder

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Manual mouldmakers make and repair sand moulds using patterns, moulding boxes, sand and hand tools following bench, floor or pit moulding methods; operate ovens to dry moulds; may pour molten metal into moulds to produce metal castings.
- Manual coremakers make cores for use inside moulds to form holes or void spaces in castings using core boxes, sand, hammer and wire or other reinforcing material; coat cores with protective materials and bake cores in oven.
- Machine mouldmakers and coremakers set up, adjust and operate various mouldmaking and coremaking machines to make sand and ceramics moulds and cores.
- Metal casters set up and operate various casting machines to cast ferrous and non-ferrous metal products; hand ladle and pour molten metal into moulds to produce castings.
- Foundry furnace operators operate furnaces used to melt metals for moulding and casting.

Employment requirements

- Completion of secondary school may be required.
- Up to two years of on-the-job training are required for manual mouldmakers; several months of on-the-job training are required for other workers in this unit group.

Additional information

- There is some mobility between workers in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Foundry labourers (in 9611 *Labourers in Mineral and Metal Processing*)
- Furnace operators who convert and refine primary metals, and operators of continuous casting processes (in 9231 *Central Control and Process Operators, Mineral and Metal Processing*)
- Supervisors of foundry workers (in 9211 *Supervisors, Mineral and Metal Processing*)

Glass Forming and Finishing Machine Operators and Glass Cutters

Machine operators in this unit group operate multi-function process control machinery or single function machines to melt, form, cut or finish flat glass, glassware, bottles, and other glass products. Glass cutters cut flat glass of various thicknesses to specified sizes and shapes by hand. They are employed by glass and glass products manufacturing companies.

Examples of titles classified in this unit group

bottle machine operator
float operator – glass forming
glass beveller
glass-blowing machine operator
glass cutter, hand
glass edger
glass-finishing machine operator
glass moulder
glass-pressing machine operator
mirror maker

Main duties

Glass process control operators perform some or all of the following duties:

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to mix and melt raw materials; heat, anneal, temper or form float glass or glass products; and coat glass with silver or other metals and materials
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments as necessary
- Maintain shift log of production and other data
- May operate process control machinery to cut glass or assemble glass window units
- May clean and maintain process machinery
- May ensure adequate levels of oil, soap, talc or other materials used in machine production of glass.

Glass forming machine operators perform some or all of the following duties:

- Set up and adjust automatic glass feeding, flowing and forming machines
- Operate and maintain machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses
- Operate electric kilns that heat glass sheets and mould to the shape and curve of metal jigs
- Spray or swab moulds with oil solutions to prevent adhesion of glass
- Weigh, measure and check production samples to assess conformance to specifications using scales and gauges and by visual verification.

Glass finishing machine operators perform some or all of the following duties:

- Set up and adjust glass and glass-product finishing machines
- Operate and maintain finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products
- Visually inspect products for quality
- Record manufacturing information such as quantity, size and type of goods produced.

Glass cutters perform some or all of the following duties:

- Jig and measure and mark glass or place pattern on or under glass for cutting
- Examine and mark defective glass to obtain best cut
- Cut glass along marked outlines or around pattern using hand tools
- Smooth rough edges using belt sander or smoothing wheels
- Set up, operate and adjust computerized or robotic glass cutting equipment
- Monitor process for product quality.

Employment requirements

- Completion of secondary school may be required.
- Experience as a machine operator helper in glass manufacturing is usually required for machine operators in this unit group.
- Experience as a glass cutter helper is usually required for manual glass cutters.

9413 Glass Forming and Finishing Machine Operators and Glass Cutters

Additional information

- Mobility is possible among the various types of machine operators in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Glass blowers (in 5244 *Artisans and Craftspersons*)
- *Glaziers* (7292)
- Helpers and labourers in glass products manufacturing (in 9611 *Labourers in Mineral and Metal Processing*)
- Neon sign makers (in 9484 *Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing*)
- Production inspectors in glass products manufacturing (in 9415 *Inspectors and Testers, Mineral and Metal Processing*)
- Supervisors of workers in this unit group (in 9211 *Supervisors, Mineral and Metal Processing*)

9414 Concrete, Clay and Stone Forming Operators

This unit group includes workers who cast and finish concrete products, operate machines to extrude, mould, press and bake clay products, and operate machines to form, cut and finish stone products. They are employed by concrete, clay and stone products manufacturing companies.

Examples of titles classified in this unit group

asbestos shingle presser
brick presser operator
clay press operator
concrete block maker
finisher – concrete, clay and stone products
granite cutter
marble cutter
moulder, clay products
precast concrete moulder
precast concrete slab maker
stone driller
stone planer
stonework moulder

Main duties

Concrete products forming and finishing workers perform some or all of the following duties:

- Construct clay models and moulds by hand and with hand tools for use in casting concrete products
- Build and repair wooden forms used to mould concrete products
- Position reinforcing rods or wire mesh in moulds and fill moulds with concrete from suspended pouring buckets
- Start vibrating tables to settle concrete, or tamp concrete using electric vibrator
- Remove castings from mould with crane or forklift, and finish surfaces of castings using screed or trowel
- Cut cured concrete pipe sections with saw or chisel, and cement sections together to form odd shaped fittings.

Concrete products machine operators perform some or all of the following duties:

- Set up, adjust and operate single-function machines to mix, drill, grind and cut concrete to specifications in the manufacture of concrete products
- Check products for quality control, repair flaws and perform ongoing machine adjustments and minor maintenance as necessary
- Move products using forklift, crane or hydraulic hoist
- Record manufacturing information such as quantity, size and type of goods produced.

Clay products forming and finishing machine operators perform some or all of the following duties:

- Set up and operate automatic machines that mix ingredients, extrude tempered clay mixture and cut extruded clay into sections to make products such as bricks, drain tiles and porcelain insulators
- Operate mechanical or hydraulic ram and hot-presses to form pottery and porcelain ware
- Prepare and mix slip and fill moulds with slip to form pottery and porcelain ware such as jugs, cups, sinks and toilet bowls
- Operate kiln to bake clay products to specified hardness.

Stone forming and finishing workers perform some or all of the following duties:

- Operate blade or wire saws to cut blocks of stone to specified dimensions
- Operate machines to grind and polish surfaces of stone blocks, slabs or other stone products to specific shape or design and to produce smooth finish
- Operate sandblasting equipment to cut inscriptions or decorative designs in stone monuments
- Finish stone products with spray paint and by mounting plaques or installing concrete bases
- Operate stone-dressing lathe to sharpen and dress grindstones that grind logs into pulp
- Operate machine to drill holes in blocks or slabs of stone according to specifications.

9414 Concrete, Clay and Stone Forming Operators

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.
- Experience as a helper or labourer in concrete, clay or stone products manufacturing may be required.
- Mould makers in this unit group who construct and repair wooden forms may require some carpentry or woodworking experience.

Additional information

- Mobility is possible between workers within each of the concrete, clay and stone manufacturing sectors, but there is little or no mobility between these manufacturing sectors.
- Progression to supervisory positions is possible with experience this group.

Classified elsewhere

- *Concrete Finishers* (7282)
- Helpers and labourers in concrete, clay and stone products manufacturing (in 9611 *Labourers in Mineral and Metal Processing*)
- Inspectors of concrete, clay and stone products (in 9415 *Inspectors and Testers, Mineral and Metal Processing*)
- Sculptors (in 5136 *Painters, Sculptors and Other Visual Artists*)
- Stone carvers, hand and craft potters (in 5244 *Artisans and Craftspersons*)
- Stone masons (in 7281 *Bricklayers*)
- Supervisors of workers in this unit group (in 9211 *Supervisors, Mineral and Metal Processing*)

9415 Inspectors and Testers, Mineral and Metal Processing

Inspectors and testers in this unit group inspect, grade, sample or test raw materials and products from mineral ore and metal processing operations. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Examples of titles classified in this unit group

asbestos grader
brick and tile inspector
casting inspector
clay products grader
fibreglass tester
glass inspector
heat treating inspector
metal processing inspector
mineral sampler
molten metal sampler
sheet steel inspector
steel tester

Main duties

Inspectors and testers perform some or all of the following duties:

- Inspect mineral ore, metal, cement, glass, clay or concrete products at various stages of processing to ensure adherence to specifications
- Grade and label raw materials or finished products according to size, thickness, composition or other classification standards
- Take samples of products during or after processing operation for routine analysis or for subsequent laboratory analysis
- Test product for strength, density, durability and conformity to specification
- Advise supervisor or process and machine operators of problems and product deficiencies
- Complete inspection and test reports.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a machine or process operator in mineral and metal processing is usually required.

Classified elsewhere

- *Machine Operators, Mineral and Metal Processing* (9411)
- *Nondestructive Testers and Inspectors* (2261)
- Quality control technologists and technicians (in 2211 *Chemical Technologists and Technicians* and in 2212 *Geological and Mineral Technologists and Technicians*)
- *Supervisors, Mineral and Metal Processing* (9211)

9421 Chemical Plant Machine Operators

Chemical plant machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of specialty chemicals, pharmaceuticals, cleaning and toiletry products. They are primarily employed in chemical, cleaning compound, ink and adhesive industries, but may also be employed by chemical processing departments in other industries.

Examples of titles classified in this unit group

batch mixer – chemical processing
blender – chemical processing
capsule machine operator
evaporator operator – chemical processing
formulations blender operator
glue blender
granulator machine operator
mixer – chemical processing
screener – chemical processing
soap maker

Main duties

Chemical plant machine operators perform some or all of the following duties:

- Monitor meters, gauges and electronic instrumentation on one or more chemical or formulation units, such as mixers, kettles, blenders, driers, tabletting, encapsulation, granulation and coating machines
- Measure, weigh and load chemical ingredients following formulation cards
- Start up, shut down, troubleshoot and clean equipment
- Adjust processing machines and equipment
- Monitor reaction processes and transfers of products in conformance with safety procedures
- Take samples and perform routine chemical and physical tests of products
- Record production data
- May operate equipment from a control room or from control consoles located near the production units.

Employment requirements

- Completion of secondary school is usually required.
- Completion of several months to one year of informal, on-the-job training within the company is required for most mixer and blender operators.
- Completion of more than one year of formal and informal company training may be required for some operators working in pharmaceutical, explosives and agricultural chemical or in specialty chemical plants.
- Previous experience in chemical products processing as an assistant, labourer or helper may be required for some occupations in this unit group.
- Certification in the transportation of dangerous goods (TDG), first aid, firefighting or workplace hazardous materials information system (WHMIS) may be required for some occupations in this unit group.

Additional information

- Mobility between employers producing similar products is possible for some of the more skilled operators in this unit group.
- Progression to supervisory positions or to process control occupations is possible with experience.
- Personal protective equipment may be required when working with some types of chemicals or pharmaceuticals.

9421 Chemical Plant Machine Operators

Classified elsewhere

- *Petroleum, Gas and Chemical Process Operators* (9232)
- *Supervisors, Petroleum, Gas and Chemical Processing and Utilities* (9212)

9422 Plastics Processing Machine Operators

Plastics processing machine operators set up and operate plastic mixing, calendering, extruding and moulding processing machines used in the manufacture of plastic parts and plastic products. They are employed by plastic products manufacturing companies.

Examples of titles classified in this unit group

bag machine operator
banbury operator – plastic manufacturing
blow moulding machine operator
calender operator – plastic manufacturing
extruder operator – plastic manufacturing
injection moulding operator
plastics press operator
printing roller moulder
solution mixer operator

Main duties

Mixing machine operators perform some or all of the following duties:

- Weigh resins, colorants and other chemicals according to formula
- Place weighed materials in mixing machine and operate machine to blend plastic and other chemicals to a specified consistency or viscosity
- Unload mixture into container or conveyor for further processing
- Maintain, and perform minor repairs on machinery as required
- Maintain inventory of material, and clean working area.

Calendering process operators perform some or all of the following duties:

- Set up and operate calender machines which transform plastic bales or slabs into continuous plastic sheets or films of specified thickness
- Troubleshoot, maintain and make minor repairs to equipment and adjust calender rollers for production line change
- Monitor quality of material produced
- Maintain inventory of material and clean working area.

Extruding process operators perform some or all of the following duties:

- Set up and operate extruding machines which extrude plastic compound through a nozzle or die
- Change dies on extruding machines according to production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced
- Maintain inventory of material, and clean working area.

Moulding process operators perform some or all of the following duties:

- Set up and operate one or more moulding machines which mould plastic products according to specifications
- Change moulds and adjust equipment for production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced and adjust machine settings as required
- Follow formulation card to mix resin batches for injection moulding process
- Maintain inventory of material, and clean working area.

Employment requirements

- For all operators in this unit group, completion of secondary school may be required.
- On-the-job training is provided.
- Several years of experience as a helper, tender or packer in the same company may be required.
- Completion of a statistical process control (SPC) course may be required.
- Completion of courses in hydraulics, pneumatics and electronics systems may be required for moulding process operators.

Additional information

- Progression to supervisory positions is possible with experience.
- Mobility among the various operators in this unit is possible.

Classified elsewhere

- *Labourers in Rubber and Plastic Products Manufacturing* (9615)
- *Plastic Products Assemblers, Finishers and Inspectors* (9495)
- *Rubber Processing Machine Operators and Related Workers* (9423)
- *Supervisors, Plastic and Rubber Products Manufacturing* (9214)

9423 Rubber Processing Machine Operators and Related Workers

Workers in this unit group operate rubber processing machinery and assemble and inspect rubber products. They are employed by tire manufacturers and other rubber products manufacturing companies

Examples of titles classified in this unit group

assembler, rubber goods
banbury operator – rubber products manufacturing
belt builder, rubber
calender machine operator – rubber products manufacturing
cracker operator – rubber products manufacturing
cure operator
extruder operator – rubber products manufacturing
hose builder, rubber
inspector, rubber products manufacturing
rubber processing machine operator
rubber products assembler
scrap rubber grinder – recycling
tire builder
tire inspector

Main duties

Rubber processing machine operators perform some or all of the following duties:

- Set up, operate and tend machinery used for mixing, calendering, extruding, moulding and curing rubber materials or rubber products
- Load or feed rubber, pigments, filler, oil and chemicals into machines
- Check and monitor processing conditions and product quality
- Adjust machines to proper setting as required
- Train or assist in training new workers.

Assemblers, rubber products perform some or all of the following duties:

- Lay out and prepare rubber materials for assembly
- Operate machines or equipment or use hand tools to cut, shape, splice, fit and cement rubber materials to form rubber parts or finished rubber products
- Operate finishing machines or equipment to trim, grind, or buff rubber products into final form
- Train or assist in training new workers.

Rubber products inspectors perform some or all of the following duties:

- Inspect finished rubber products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved products and mark and reroute defective products for repair or recycle
- Fill out product inspection reports
- May make minor adjustments or repairs to products.

Employment requirements

- Completion of secondary school may be required.
- Experience as a labourer in the same company may be required.
- On-the-job training is provided.

Additional information

- Progression to supervisory positions is possible with experience.
- Mobility among the various labourers in this unit group is possible.

Classified elsewhere

- *Labourers in Rubber and Plastic Products Manufacturing* (9615)
- *Plastic Products Assemblers, Finishers and Inspectors* (9495)
- *Plastics Processing Machine Operators* (9422)
- *Supervisors, Plastic and Rubber Products Manufacturing* (9214)

9424 Water and Waste Plant Operators

Water plant operators monitor and operate computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water. Waste plant operators monitor and operate computerized control systems and related equipment in wastewater, sewage treatment and liquid waste plants to regulate the treatment and disposal of sewage and wastes. They are employed by municipal governments, industries and institutions.

Examples of titles classified in this unit group

environmental systems operator – water treatment
operator, water purification plant
process operator, liquid waste
sewage plant operator
water filtration plant operator
water treatment plant operator
wastewater treatment plant operator

Main duties

Water plant operators perform some or all of the following duties:

- Operate and monitor computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water
- Read flow meters, gauges and other recording instruments to measure water output and consumption levels, bacterial content, chlorine and fluoride levels
- Monitor and inspect plant equipment and systems to detect equipment malfunctions and to ensure plant systems are operating normally
- Collect and test water samples for chemical and bacterial content
- Analyze test results and instrument readings and make adjustments to plant equipment and systems as required
- Perform security checks in plant and on grounds
- Respond to customer complaints on water quality problems
- Complete and maintain plant logs and reports
- May perform minor maintenance or assist skilled tradespersons with installation and repair of plant machinery
- May measure, mix and transport chemicals to maintain feed stocks.

Waste plant operators perform some or all of the following duties:

- Operate and monitor computerized control systems and related equipment in wastewater treatment, sewage treatment and liquid waste plants to regulate the flow of sewage through settling, aeration and digestion tanks, and to treat and dispose of sewage and wastes
- Patrol plant to check pumps, motors, filters, chlorinators and other plant equipment; monitor and read gauges, meters and other recording instruments to detect equipment malfunctions and ensure plant systems and equipment are operating within prescribed limits
- Collect waste and sewage samples, test and analyze results and make adjustments to plant equipment and systems as required
- Perform security checks in plant and on grounds
- Complete and maintain plant logs and reports
- May perform minor maintenance or assist skilled tradespersons with installation and repair of plant machinery.

Employment requirements

- Completion of secondary school is usually required.
- College, high school or industry training courses in water treatment pollution control are required.
- Certification in water distribution or treatment (Levels I, II or III) is required.
- Certification in workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), and courses in safety practices may be required.
- On-the-job training is provided.

- Previous experience as a labourer or utilities maintenance worker with the same employer may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- There is limited mobility between water plant and waste plant operators.

Classified elsewhere

- *Supervisors, Petroleum, Gas and Chemical Processing and Utilities* (9212)
- Water and waste plant labourers (in 9613 *Labourers in Chemical Products Processing and Utilities*)
- *Waterworks and Gas Maintenance Workers* (7442)

9431 Sawmill Machine Operators

Sawmill machine operators operate, monitor and control automated lumbermill equipment to saw timber logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes. They are employed in sawmills and planing mills.

Examples of titles classified in this unit group

circular saw operator
edgerman/woman
head sawyer
log cut-off operator
planer operator
resaw operator
shake splitter
trimmerman/woman

Main duties

Sawmill machine operators perform some or all of the following duties:

- Operate front-end loaders and stationary deck cranes to feed logs into the sawmill
- Examine logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or use automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns
- Operate automated lumbermill equipment from control rooms or equipment consoles to saw logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes
- Start conveyor system to move logs and lumber to and from saws
- Set up and adjust saw equipment and replace blades or bands using wrenches, gauges and other hand tools
- Operate equipment to sort and stack lumber by length and thickness, move stacks to storage areas or drying kilns, and feed lumber through planers
- Monitor movement of lumber and computer screens to ensure cuts are made according to specifications, and print production reports
- Clean and lubricate sawmill equipment.

Employment requirements

- Completion of secondary school is usually required.
- College courses in wood processing technology may be required.
- Several weeks of on-the-job training are usually provided.
- Head sawyers and planer operators usually require several years of experience in other sawmill machine operating positions in the same company.
- A certificate in industrial first aid may be required.

Additional information

- There is some mobility among jobs in this occupational group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Labourers in Wood, Pulp and Paper Processing* (9614)
- *Lumber Graders and Other Wood Processing Inspectors and Graders* (9436)
- *Other Wood Processing Machine Operators* (9434)
- *Supervisors, Forest Products Processing* (9215)
- *Woodworking Machine Operators* (9513)

9432 Pulp Mill Machine Operators

Pulp mill machine operators operate and monitor various types of processing machinery and equipment to produce pulp. They are employed by pulp and paper companies.

Examples of titles classified in this unit group

assistant bleacher operator – pulp and paper
assistant digester operator
cook's first helper – pulp and paper
field operator – pulp and paper
grinderman/woman – pulp and paper
refiner operator – pulp and paper
repulper operator
screenman/woman – pulp and paper
thermomechanical pulp assistant operator

Main duties

Pulp mill machine operators perform some or all of the following duties:

- Operate and monitor screening equipment, bleaching equipment, digesters, mixing tanks, washers, and other pulp processing machinery and equipment to carry out one or more cellulose processing steps
- Observe equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- Communicate with pulping control operator to make process adjustments and start up or shut down machinery and equipment as required
- Collect processing samples and conduct titration tests, pH readings, specific density tests and other routine tests on pulp and solutions
- Maintain and complete production reports.

Employment requirements

- Completion of secondary school is required.
- A college diploma in forest products processing or a related subject may be required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Previous experience as a pulp mill labourer within the same company is usually required.
- A certificate in industrial first aid may be required.

Additional information

- There is limited mobility among jobs within this occupational group.
- Progression to pulping control operator is possible with experience.

Classified elsewhere

- *Labourers in Wood, Pulp and Paper Processing* (9614)
- *Pulping Control Operator* (9233)
- *Supervisors, Forest Products Processing* (9215)

9433 Papermaking and Finishing Machine Operators

Papermaking and finishing machine operators operate process machinery and equipment and assist papermaking and coating control operators to produce, coat and finish paper. They are employed by pulp and paper companies.

Examples of titles classified in this unit group

assistant coating operator – pulp and paper
balerman/woman – pulp and paper
calender operator – pulp and paper
embossing calender operator – pulp and paper
fourth hand – pulp and paper
graderman/woman – pulp and paper
sheeter operator – pulp and paper
winderman/woman – pulp and paper

Main duties

Papermaking and finishing machine operators perform some or all of the following duties:

- Operate and monitor various papermaking and finishing process machinery and equipment to dry, calender, laminate, coat, slit, trim, wind or carry out other papermaking and finishing process steps
- Mount, position and thread paper rolls using a hoist
- Control process machinery using a distributed control system and process computers
- Observe equipment and machinery, panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- Communicate with and assist papermaking and coating control operators to make process adjustments and to start up or shut down process machines as required
- Inspect paper visually for wrinkles, holes, discolouration, streaks or other defects and take corrective action
- Maintain and complete production reports.

Employment requirements

- Completion of secondary school is required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Previous experience as a labourer within the same company is usually required.

Additional information

- There is limited mobility among jobs within this occupational group.
- A certificate in industrial first aid may be required.
- A competency certificate in natural gas may be required.
- Progression to papermaking and coating control operator occupations is possible with experience.

Classified elsewhere

- *Labourers in Wood, Pulp and Paper Processing* (9614)
- Machine operators engaged in fabricating and assembling paper products (in 9435 *Paper Converting Machine Operators*)
- *Papermaking and Coating Control Operators* (9234)
- *Supervisors, Forest Products Processing* (9215)

9434 Other Wood Processing Machine Operators

Machine operators in this unit group operate and tend wood processing equipment and machines to remove bark from logs, produce wood chips, preserve and treat wood, and produce waferboards, particle boards, hardboards, insulation boards, plywood, veneers and similar wood products. They are employed in sawmills, woodrooms of pulp mills, planing mills, wood treatment plants, waferboard plants and other wood processing plants.

Examples of titles classified in this unit group

barker operator
chipper operator
lumber kiln operator
particleboard line operator
plywood panel assembler
timber treating tank operator
veneer drier tender
veneer lathe operator
waferboard press operator
wood treater

Main duties

Machine operators in this unit group perform some or all of the following duties:

- Operate and tend various wood processing equipment and machines to remove bark, knots and dirt from logs; reduce logs or sawmill waste into wood chips or flakes; stack and band lumber; screen wood chips; and produce waferboards, particle boards, hardboards and insulation boards
- Operate and tend conveyors, lathes, sanding machines and other equipment to peel and slice veneer from logs and log sections, and to glue, press, trim, sand and splice veneer sheets
- Operate and tend kilns, treating tanks and other equipment to dry lumber and other wood products, and to treat chemically and impregnate wood products with preservatives
- Observe equipment, panel indicators, video monitors, and other instruments to detect malfunctions and ensure that processes are operating according to specifications
- Assemble plywood panels and repair plywood and veneer mechanically or manually
- Start up, shut down, set up, adjust and assist in maintaining process equipment and machines as required
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is usually required.
- Several months of on-the-job training are provided.
- For lumber kiln operators, particle board operators and waferboard operators, some combination of college or company courses and up to a year of on-the-job training may be required.
- Previous experience as a labourer in wood processing may be required.

Additional information

- There is some mobility among jobs in this unit group.
- Progression to other positions in the wood, pulp and paper industries is possible with experience.

Classified elsewhere

- *Labourers in Wood, Pulp and Paper Processing* (9614)
- *Sawmill Machine Operators* (9431)
- *Supervisors, Forest Products Processing* (9215)

9435 Paper Converting Machine Operators

Paper converting machine operators operate various machines which fabricate and assemble paper products such as paper bags, containers, boxes, envelopes and similar articles. They are employed by paper products manufacturing companies.

Examples of titles classified in this unit group

box maker operator
carton forming machine operator
core maker
corrugator operator
envelope maker operator
paper bag machine operator
paper box machine operator

Main duties

Paper converting machine operators perform some or all of the following duties:

- Operate machines which cut, fold, glue or clip paper and cardboard to make boxes, corrugated cartons and other articles
- Operate machines which glue paper to cardboard and cut it into required lengths
- Operate machines which press paper to form drinking cups and other containers
- Operate machines which cut, glue and fold paper to make envelopes or paper bags
- Operate other paper converting machines to form products such as paper tubes, cards, paper towels or diapers
- Clean and lubricate machine and perform other routine machine maintenance
- Set up machines.

Employment requirements

- Completion of secondary school is required by the pulp and paper industry and other large employers.
- Several weeks of on-the-job training are provided.
- Previous experience as a labourer within the same company may be required.

Additional information

- There is some mobility between jobs in this occupational group.

Classified elsewhere

- *Papermaking and Finishing Machine Operators* (9433)
- *Printing Machine Operators* (9471)
- *Printing Press Operators* (7381)

9436 Lumber Graders and Other Wood Processing Inspectors and Graders

Lumber graders and other wood processing inspectors and graders inspect and grade lumber, shingles, veneer, waferboard and similar wood products to identify defects, ensure conformance to company specifications and classify products according to industry standards. They are employed by sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Examples of titles classified in this unit group

grader tallyman/woman – wood processing
grader – wood processing
lumber grader
particle board grader – wood processing
plywood grader
plywood inspector
veneer grader
wood measurer

Main duties

Lumber graders perform some or all of the following duties:

- Examine lumber visually for knots, holes, splits and other defects and sort for further drying, trimming or remanufacturing
- Measure lumber using callipers, gauges and tape measures to ensure specified thickness, length and width
- Classify and sort lumber according to industry standards and stamp lumber to indicate grade, wood type, moisture level and other characteristics
- Tally lumber
- Complete and maintain reports.

Other wood processing inspectors and graders perform some or all of the following duties:

- Inspect plywood panels, veneer sheets, panelboards, shingles and similar wood products visually for knots, holes, splits, straightness and other defects
- Mark defects and sort for repair or reprocessing
- Measure wood products to ensure conformance to specifications using standard measuring instruments
- Grade and label wood products according to quality standards
- Maintain and complete inspection and grading reports.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training and up to two weeks of classroom training are provided for lumber graders.
- Previous experience as a sawmill machine operator, other wood processing operator or as a labourer in wood processing is usually required for graders and inspectors in this unit group.
- Lumber graders require a lumber grader's licence issued by a provincial lumber association.

Additional information

- There is some mobility between employers processing similar wood products.

Classified elsewhere

- Forest product technologists (in 2211 *Chemical Technologists and Technicians*)
- Log scalers (in 2223 *Forestry Technologists and Technicians*)
- Production technologists in sawmills (in 2233 *Industrial Engineering and Manufacturing Technologists and Technicians*)
- *Supervisors, Forest Products Processing* (9215)

9441 Textile Fibre and Yarn Preparation Machine Operators

Textile fibre and yarn preparation machine operators operate machines to prepare textile fibres or to spin, wind or twist yarn or thread. They are employed by textile companies.

Examples of titles classified in this unit group

card tender
opening and blending operator
slasher operator – textile manufacturing
spinning operator – textile manufacturing
twisting operator – textile manufacturing
warping operator – textile manufacturing
wool scourer

Main duties

Textile fibre and yarn preparation machine operators perform some or all of the following duties:

- Operate and feed machines that wash, mix, blend, pick, card, lap, comb or draw fibres
- Operate and feed yarn texturizing machines
- Operate spinning or twisting frames
- Operate winding or reeling machines
- Patrol work area to check for broken yarns or product defects
- Tie broken threads
- Investigate machine stoppages
- Notify supervisor or mechanic of equipment malfunction
- May assist with maintenance and minor repairs to machinery.

Employment requirements

- Some secondary school education may be required.
- Several months of on-the-job training may be provided.

Additional information

- There is considerable mobility among occupations in this group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Supervisors, Textile Processing* (9216)

9442 Weavers, Knitters and Other Fabric-Making Occupations

Operators in this unit group operate machines to process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric. This unit group also includes workers who perform activities such as reproducing patterns, drawing-in and tying warps and setting up looms. They are employed by textile companies and by garment and mattress manufacturing companies.

Examples of titles classified in this unit group

carpet weaver
drawer-in
drawing-in machine operator
embroidery machine operator
hosiery knitter
knitter
knitting machine operator
loom operator
mattress sewing machine operator
pinning machine operator
quilting machine operator
tufting operator
warp knitting machine tender
warp tier-in
weaver – textile manufacturing

Main duties

Operators in this unit group perform some or all of the following duties:

- Set up looms or other processing machines
- Read loom patterns and prepare loom pattern mechanisms for processing
- Operate looms to weave yarn or thread into textile fabrics or products
- Operate machines that produce twine, ropes or nets
- Operate batteries of knitting machines to produce knitted fabric, hosiery, garments or other products
- Operate carpet tufting machines, felt making needle-punch machines and other machines to produce textile products
- Operate large automatic multi-needle machines to embroider material or to sew lengths of several layers of material to make yard goods, quilts or mattress coverings
- Patrol machines and check fabrics or products for defects and to verify efficient operation
- Investigate machine stoppages
- Repair minor mechanical problems such as broken or defective needles
- Notify supervisor or repairers of mechanical malfunctions.

Employment requirements

- On-the-job training is provided for periods up to several months, depending on the complexity of the product, whether equipment set-up and maintenance is done by the operator, and the number of machines operated.
- Previous experience as a labourer in the same company may be required for some operators in this group.

Additional information

- Movement between employers may be limited by differences in machines and products.
- Progression to textile machinery mechanics and repairers or to supervisory positions is possible with experience and training.

Classified elsewhere

- Craft weavers and knitters (in 5244 *Artisans and Craftspersons*)
- *Sewing Machine Operators* (9451)
- *Supervisors, Textile Processing* (9216)
- *Textile Machinery Mechanics and Repairers* (7317)

9443 Textile Dyeing and Finishing Machine Operators

Textile dyeing and finishing machine operators operate machines to bleach, dye or finish yarn, thread, cloth or textile products. They are employed by textile manufacturing companies.

Examples of titles classified in this unit group

autoclave tender – textile manufacturing
bleaching range operator
carpet drying machine tender
coater operator – textile manufacturing
dye-range operator
dyer
finishing range operator
printing operator – textile manufacturing
screen printing operator – textile manufacturing

Main duties

Textile dyeing and finishing machine operators perform some or all of the following duties:

- Operate a variety of machines to bleach, dye, coat or finish fabric, thread, yarn or other textile products
- Set up machines for proper processing
- Mix dyes or chemicals according to established formulas
- Operate machinery to print designs onto textile products
- Examine products for defects and to ensure adherence to quality standards
- Notify supervisor or mechanic in the event of equipment malfunction.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training is provided for periods up to several months, depending on the complexity of the process and the number of machines operated.

Additional information

- Progression is possible within the group to operate more complex dye ranges and textile printing equipment.
- Progression to supervisory positions usually requires completion of a college program in textiles, chemistry or a related subject.

Classified elsewhere

- Master dyers and textile colour technologists (in 2211 *Chemical Technologists and Technicians*)
- *Supervisors, Textile Processing* (9216)

9444 Textile Inspectors, Graders and Samplers

Textile inspectors, graders and samplers prepare samples and inspect and grade textile products. They are employed by textile companies.

Examples of titles classified in this unit group

cloth grader
cloth inspector
inspector – textiles
perch operator
quality control inspector – textiles
sampler – textiles
textile grader
yarn inspector

Main duties

Textile inspectors, graders and samplers perform some or all of the following duties:

- Examine fabric or products for conformity to quality standards
- Mark defects
- Repair minor defects
- Grade products
- Sort products by style, colour, size, length or other criteria
- Measure or weigh products
- Record information on products inspected
- May package products.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.
- Experience as a weaver, knitter or other fabric-making operator may be required for inspection of more valuable and complex products.

Classified elsewhere

- *Supervisors, Textile Processing* (9216)

9451 Sewing Machine Operators

Sewing machine operators operate sewing machines to sew fabric, fur, leather or synthetic materials to produce or repair garments and other articles. They are employed in clothing, footwear, textile products, fur products and other manufacturing establishments and by furriers.

Examples of titles classified in this unit group

fur sewing machine operator
leather products sewing machine operator
lining stitcher
sample maker
sample sewer
serging machine operator
sewing machine operator
shoe sewer

Main duties

Sewing machine operators perform some or all of the following duties:

- Assemble pieces of garments by matching patterns and dye lots
- Operate single, double or multi-needle serging, flat bed felling, banding and other sewing machines, to join sections of garments or other articles into finished products on a piece-work or production basis
- Operate fur sewing machines to join fur pelt strips to required size and shape and join pelts into garment sections or shells
- Operate stitching machines to sew leather parts together for leather garments, handbags, shoes and other leather articles
- Operate serging machines to sew and overcast edges of material simultaneously
- Operate tackers, pocketsetters, buttonhole makers and fusing, hemmer and other machines to perform various operations in the fabrication of garments and other articles
- Examine garments and operate sewing machines, sergers and other machines to repair garments and other articles during the manufacturing process
- Complete production reports
- May perform minor maintenance and repairs on sewing machine.

Employment requirements

- Some secondary school education is usually required.
- Experience operating a sewing machine is usually required.
- On-the-job training may be provided.

Additional information

- Sewing machine operators may progress to supervisory positions with experience.

Classified elsewhere

- *Fabric, Fur and Leather Cutters* (9452)
- Mattress sewing and embroidery machine operators (in 9442 *Weavers, Knitters and Other Fabric Making Occupations*)
- *Shoe Repairers and Shoemakers* (7343)
- Supervisors of sewing machine operators (in 9225 *Supervisors, Fabric, Fur and Leather Products Manufacturing*)
- *Tailors, Dressmakers, Furriers and Milliners* (7342)

9452 Fabric, Fur and Leather Cutters

Fabric cutters cut fabric to make parts for garments, linens and other articles. Fur cutters cut fur pelts to make parts for garments and other fur articles. Leather cutters cut leather to make parts for shoes, garments and other leather articles. Fabric cutters are employed by clothing and textile manufacturers and other manufacturers of fabric products. Fur cutters are employed by furriers and fur products manufacturers. Leather cutters are employed by shoe and other leather products manufacturers.

Examples of titles classified in this unit group

clothing cutter
fabric cutter
fur cutter
glove cutter
leather cutter
sample cutter
shoe cutter

Main duties

Fabric cutters perform some or all of the following duties:

- Place patterns on top of layers of fabric and cut fabric following patterns, using electric or manual knives, cutters or computer numerically controlled (CNC) cutting devices
- Adjust cutting technique to type of fabric and style of garment
- May cut fabric samples.

Fur cutters perform some or all of the following duties:

- Cut fur skins in diagonal strips to specified length and shape of pelt using furrier's knives and cutters
- Number pelts to indicate their location on pattern
- May sort or match skins, and may prepare fur samples.

Leather cutters perform some or all of the following duties:

- Select leather and cutting dies for leather goods and shoe parts according to specifications
- Position leather on cutting bed of machine, maximizing usage according to skin grain, skin flaws and skin stretch
- Operate clicker or punch press to stretch leather
- Operate machine to cut leather or cut single leather skins by hand to make leather products
- May cut leather samples.

Employment requirements

- Some secondary school education is usually required.
- Experience as a fabric, fur or leather cutter is required for fabric, fur or leather sample cutters.
- Some on-the-job training is provided for occupations in this unit group.
- Several years of on-the-job training are provided for fur cutters.

Additional information

- Progression to supervisory positions is possible with experience.
- There is little mobility among the different kinds of cutters in this unit group.

Classified elsewhere

- *Shoe Repairers and Shoemakers* (7343)
- *Supervisors, Fabric, Fur and Leather Products Manufacturing* (9225)
- *Tailors, Dressmakers, Furriers and Milliners* (7342)

9453 Hide and Pelt Processing Workers

Hide and pelt processing workers trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs. They are employed by leather tanning, fur dressing and leather and fur dyeing establishments.

Examples of titles classified in this unit group

beating machine tender
leather buffer
leather stretcher
pelt dresser
shaving machine tender
tanner

Main duties

Hide and pelt processing workers perform some or all of the following duties:

- Cut particles of flesh and fat from hides or pelts prior to processing using hand and powered cutting knives and remove loose hair from hides and pelts
- Operate machines to remove flesh or hair from hides, skins or pelts and shave hides to uniform thickness
- Shear fur or wool hides to produce pelts with hair of specified or uniform length
- Prepare solutions according to pre-established formulas in vats or revolving drums and immerse hides and skins to clean, dehair, pickle, dye, oil or tan
- Adjust rotation and mixing action of vats according to state of pelts
- Immerse pelts to clean, soften and preserve
- Operate machines to polish or roughen hides or skins to specified finish
- Tint or dye furs to enhance natural shades of fur
- May maintain and repair vats and other machinery.

Employment requirements

- On-the-job training is usually provided.

Additional information

- There is some mobility among jobs in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Supervisors of hide and pelt processing workers (in 9225 *Supervisors, Fabric, Fur and Leather Products Manufacturing*)

9454 Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

Inspectors and testers in this unit group inspect and grade hides, pelts and leather, or garments and other manufactured fabric, fur and leather products. They are employed by leather tanning and fur dressing establishments or by garment, fur and leather products manufacturers.

Examples of titles classified in this unit group

clothing inspector
cushion and cover inspector
fur grader
garment inspector
hide grader
leather goods inspector
pelt grader
seconds inspector-grader
shirt inspector

Main duties

Inspectors and testers in this unit group perform some or all of the following duties:

- Inspect and grade animal hides, pelts or leather according to size, condition and weight
- Inspect garments and similar products for defects, such as seam splits, puckers, missing buttons and colour and shape variations
- Verify fit or size by placing garment over a form or by measuring products
- Trim excess material and loose threads using scissors
- Remove lint using a brush or lint remover and remove spots using cleaning solution
- Repair minor defects using a needle and thread
- Record information on the number and nature of defects
- Grade and sort finished products and tag according to size, style and quality.

Employment requirements

- Some secondary school education may be required.
- Work experience in the manufacturing of the products under examination is usually required.

Additional information

- There is little mobility among the different inspectors and testers in this unit group.

Classified elsewhere

- *Supervisors, Fabric, Fur and Leather Products Manufacturing* (9225)
- *Textile Inspectors, Graders and Samplers* (9444)

9461 Process Control and Machine Operators, Food and Beverage Processing

Process control and machine operators in this unit group operate multi-function process control machinery or single-function machines to process and package food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food and beverage processing establishments.

Examples of titles classified in this unit group

bakery machine operator – food and beverage processing
bottling machine operator
brewer
canning machine operator
chocolate refiner
control room operator – food and beverage processing
fermenter operator
freezer operator
fryer operator
meat grinder
mixer operator, dry foods
pasteurizer operator
sugar boiler

Main duties

Process control operators in this unit group perform some or all of the following duties:

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to grind, extract, mix, blend, cook or otherwise process food products and to bag, box or otherwise package food products
- Operate multi-function process control machinery to grind, extract, mix, blend, distill, ferment or otherwise process alcoholic or non-alcoholic beverages and to bottle, can or otherwise package beverages
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments to process variables such as cooking times, ingredient inputs, flow rates and temperature settings
- Maintain shift log of production and other data.

Machine operators in this group perform some or all of the following duties:

- Set up and adjust processing and packaging machines preparatory to operation
- Operate single-function machines to grind, extract, mix, blend, freeze, cook or otherwise process food or beverage products and to box, can or otherwise package food or beverage products
- Check products for defects and to ensure conformance to company standards and perform corrective machine adjustments as necessary
- Record production information such as quantity, weight, size, date and type of products packaged.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training is provided.
- Experience as a machine operator, food and beverage processing is usually required for process control operators.
- Experience as a labourer, food and beverage processing may be required for machine operators.

Additional information

- There is little mobility among the various types of process control operators within the food and beverage processing industry.
- Process control operators may progress to supervisory positions in food and beverage processing with experience.
- There is mobility among machine operators within the food and beverage processing industry.
- Machine operators may progress to process control operators or supervisors in food and beverage processing with experience.

9461 Process Control and Machine Operators, Food and Beverage Processing

Classified elsewhere

- *Bakers* (6252)
- *Butchers and Meat Cutters, Retail and Wholesale* (6251)
- *Fish Plant Workers* (9463)
- *Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers* (9462)
- *Labourers in Fish Processing* (9618)
- *Labourers in Food, Beverage and Tobacco Processing* (9617)
- *Supervisors, Food, Beverage and Tobacco Processing* (9213)

9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers

Workers in this unit group prepare meat and poultry for further processing, for packaging or for marketing. They are employed in meat and poultry slaughtering, processing and packing establishments.

Examples of titles classified in this unit group

beef boner
ham cutter
industrial butcher
industrial meat cutter
meat trimmer
poultry preparer
slaughterer

Main duties

The following is a summary of main duties for some occupations in this unit group:

- Industrial butchers slaughter livestock using stunning devices and knives; skin, clean and trim carcasses; remove viscera and other inedible parts from carcasses; split carcasses into smaller portions to facilitate handling; and may slaughter cattle, calves and sheep as prescribed by religious laws.
- Industrial meat cutters cut beef, lamb, pork or veal carcasses or sides or quarters of carcasses into primal cuts for further cutting, processing or packaging; remove bones from meat; and cut meat and poultry into specific cuts for institutional, commercial or other wholesale use.
- Poultry preparers slaughter poultry and remove inedible parts; remove feathers and singe and wash poultry to prepare for further processing or packaging.
- Trimmers remove skin, excess fat, bruises or other blemishes from carcasses or meat portions.

Employment requirements

- Completion of secondary school may be required.
- For industrial meat cutters, completion of a program in industrial meat cutting
  or
  Experience as an industrial butcher or trimmer is required.
- On-the-job training is provided for industrial butchers, poultry preparers and trimmers.

Additional information

- Progression to supervisory positions is possible with experience.
- Industrial meat cutters may progress to inspecting, testing and grading jobs.

Classified elsewhere

- *Butchers and Meat Cutters, Retail and Wholesale* (6251)
- Meat graders (in 9465 *Testers and Graders, Food and Beverage Processing*)
- Meat inspectors (in 2222 *Agricultural and Fish Products Inspectors*)
- Supervisors, meat packing (in 9213 *Supervisors, Food, Beverage and Tobacco Processing*)

9463 Fish Plant Workers

This unit group includes fish plant machine operators, who set up and operate machinery to process and package fish products, and fish plant cutters and cleaners, who cut, trim and clean fish by hand. Fish plant workers are employed in fish processing plants.

Examples of titles classified in this unit group

fish cake maker
fish canning machine operator
fish cleaner and cutter
fish cutting machine operator
fish plant worker
shellfish processor
shellfish separator tender
shellfish shucker
trimmer – fish processing

Main duties

Fish plant machine operators perform some or all of the following duties:

- Set up and operate machines to clean, cut, cook, smoke, brine, dehydrate or otherwise process fish products
- Set up and operate machines to can, bag, box or otherwise package fish products
- Check products and packaging for defects and to ensure conformance to company standards and perform corrective machine adjustments as required
- Record production information such as quantity, weight, date and type of products packaged.

Fish plant cutters and cleaners perform some or all of the following duties:

- Cut, clean and trim fish prior to marketing or further processing
- Scrape away scales, cut fish, separate fillets and remove scrap parts using knife
- Check fish fillets to determine optimal number and size of fillet sections, cut sections according to specifications and place in container for weighing
- Disjoint and remove meat from lobsters or other crustaceans preparatory to canning or further processing.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Labourers in Fish Processing* (9618)
- *Supervisors, Food, Beverage and Tobacco Processing* (9213)

9464 Tobacco Processing Machine Operators

Tobacco processing machine operators operate machines to prepare and treat raw tobacco leaves or to produce and package tobacco products such as cigarettes and cigars. They are employed in leaf tobacco processing and tobacco products plants.

Examples of titles classified in this unit group

cigar maker
cigarette machine tender
cleaning and classifying operator – tobacco processing
conveyor tender – tobacco processing
dryer tender – tobacco processing
module tender – tobacco processing
tobacco blender
tobacco packaging machine tender

Main duties

Tobacco processing machine operators perform some or all of the following duties:

- Operate machines that blend, flavour, condition, dry, flatten, strip or cut raw tobacco leaves
- Tend cigarette, cigar and other tobacco processing machines, and monitor product quality
- Clear blockages and adjust machines as required
- Clean machines and immediate work areas.

Employment requirements

- Completion of secondary school may be required.
- Experience as a labourer in the tobacco processing industry may be required.

Additional information

- Progression to supervisory positions in the tobacco processing industry is possible with experience.

Classified elsewhere

- *Supervisors, Food, Beverage and Tobacco Processing* (9213)
- Tobacco testers and graders (in 9465 *Testers and Graders, Food and Beverage Processing)*

9465 Testers and Graders, Food and Beverage Processing

Testers and graders in this unit group test or grade ingredients and finished food, beverage or tobacco products to ensure conformance to company standards. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and tobacco processing plants.

Examples of titles classified in this unit group

beef grader
beer tester
cheese grader
fish grader
milk grader
poultry grader
product tester – food and beverage processing
tobacco grader

Main duties

Testers and graders, in this unit group perform some or all of the following duties:

- Take samples of products at various stages of processing
- Examine ingredients or finished products by sight, touch, taste and smell or weigh materials to ensure conformance to company standards
- Conduct routine tests for product specifications such as colour, alcohol content, carbonation, moisture content, temperature, fat content and packaging
- Grade or sort raw materials or finished products
- Ensure hygiene and sanitation practices conform to policies and regulations
- Advise supervisors of ingredient or product deficiencies.

Employment requirements

- Completion of secondary school may be required.
- Experience as a machine operator or labourer in the food and beverage processing industry may be required.
- On-the-job training is usually provided.

Additional information

- There is little mobility among the various types of testers and graders in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Agricultural and Fish Product Inspectors* (2222)
- Quality control technologists and technicians (in 2211 *Chemical Technologists and Technicians*)
- *Supervisors, Food, Beverage and Tobacco Processing* (9213)

9471 Printing Machine Operators

This unit group includes workers who operate laser printers, computerized high speed colour copiers and other printing machines to print text, illustrations and designs on a wide variety of materials such as paper, plastic, glass, leather, and metal. They are employed in rapid printing services, commercial printing companies and in manufacturing and other establishments that have in-house printing facilities.

Examples of titles classified in this unit group

colour copier operator
electronic sign maker operator
laser printer operator
printing and finishing machine operator
printing machine operator
quick print machine operator
screen print operator
silk-screening machine operator
wallpaper printer

Main duties

Printing machine operators perform some or all of the following duties:

- Review work order to determine job specifications, such as ink colour and quantity required
- Set up and make adjustments to printing machine, such as filling ink or paint reservoirs and loading stock
- Input codes and key in programming data on console keyboard of computerized machines
- Operate and monitor printing machines during print run and make adjustments as required
- Clean machines and replace worn parts.

Employment requirements

- Completion of secondary school may be required.
- Completion of college or other courses in printing may be required.
- On-the-job training is provided.

Classified elsewhere

- *Printing Press Operators* (7381)
- *Supervisors, Printing and Related Occupations* (7218)
- Textile printing machine operators (in 9443 *Textile Dyeing and Finishing Machine Operators*)

9472 Camera, Platemaking and Other Pre-Press Occupations

This unit group includes pre-press technicians who operate various computer controlled systems to perform pre-press activities and workers who operate graphic arts cameras and scanners, assemble film and negatives and prepare, engrave and etch printing plates or cylinders for various types of printing presses. They are employed in firms that specialize in colour graphics or platemaking and cylinder preparation, commercial printing companies, newspapers, magazines, and in various establishments in the public and private sectors that have in-house printing departments.

Examples of titles classified in this unit group

camera operator – graphic arts
cylinder preparer – printing
dot etcher
film stripper/assembler
platemaker
pre-press technician
printing plate engraver
proofmaker
scanner operator
screenmaker
studio-image-processing system operator

Main duties

The following is a summary of main duties for some occupations in this group:

- Graphic arts camera operators set up and adjust black and white or colour separation process cameras to convert graphic art and photographs into film for assembly and exposure onto printing plates or cylinders.
- Cylinder preparers grind and polish press cylinders; expose and lay down carbon tissue; and, etch or engrave cylinders using hand tools, etching machines, photogravure or laser processes to produce cylinders for gravure presses.
- Film strippers/assemblers assemble and position, either using automated equipment or by hand, pieces of film containing all parts of a printing job to produce flats or composite negatives for preparing printing plates or cylinders.
- Platemakers operate vacuum frames, plate processors and step and repeat machines to produce printing plates for various types of presses.
- Pre-press technicians operate various computer-controlled studio systems to perform colour separation, retouching and editing that allow changes to be made to a colour negative for printing purposes, plan page layouts and electronically alter shape, size and positions of illustrations and text.
- Scanner operators operate computerized scanning machines or digital cameras to make colour separations and corrections from colour copy or transparencies for use in preparing film, digital files, printing plates or cylinders.
- Proofmakers operate computerized equipment to prepare film, laser or dylux proofs for quality control purposes or for customers' review.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in graphic arts technology

  or

  A four to five-year apprenticeship program in printing and graphic arts

  or

  A combination of on-the-job training and specialized college, industry or other courses is required.
- Trade certification for some occupations in this group is available, but not compulsory, in Ontario, Alberta and the Northwest Territories.

Classified elsewhere

- *Graphic Arts Technicians* (5223)
- *Graphic Designers and Illustrators* (5241)
- *Supervisors, Printing and Related Occupations* (7218)
- Typesetters and desktop publishing operators (in 1423 *Desktop Publishing Operators and Related Occupations*)

9473 Binding and Finishing Machine Operators

Binding and finishing machine operators set up, operate or oversee the operation of specific machines, equipment or computerized units that bind and finish printed material. Workers who perform finishing operations in the paper, carton and packaging industries, as well as those who encode and stamp plastic cards are included in this unit group. They are employed by binderies, commercial printing companies, newspapers, magazines, and other publishing companies, and establishments in both the public and private sectors that have in-house printing, binding and finishing departments.

Examples of titles classified in this unit group

binder – printing
binder and finisher
bindery assistant
bindery operator
bookbinder, machine
bookbinding machine operator
cerlox binder operator
cutter operator – printing
finishing machine operator – printing
foil stamper
gathering machine operator – printing
gold leaf stamper
laminating machine operator
perforator operator – printing
stitcher operator

Main duties

The following is a summary of the main duties for some occupations in this unit group:

- Binding and finishing machine operators set up and operate various specialized equipment and machines that cut, fold, gather and finish brochures, magazines, books, business forms and other printed material.
- Specialty finishing equipment operators set up and operate various specialized equipment and machines that die cut, emboss, imprint, laminate, heat stamp and perform other finishing operations on printed material.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in graphic arts technology

  or

  A four-year apprenticeship program in printing

  or

  A combination of on-the-job training and specialized college, industry or other courses may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- There is mobility among various types of binding machine operators in this group.

Classified elsewhere

- Feeders, loaders, offbearers and similar occupations (in 9619 *Other Labourers in Processing, Manufacturing and Utilities*)
- Hand bookbinders (in 5244 *Artisans and Craftspersons*)
- *Supervisors, Printing and Related Occupations* (7218)

9474 Photographic and Film Processors

Photographic and film processors process and finish still photographic film and motion picture film. They are employed in film processing laboratories and retail photofinishing establishments.

Examples of titles classified in this unit group

dark room technician
film developer
film printing machine operator
film processor
photofinisher
photograph developer
photograph inspector
photographic processor

Main duties

Photographic and film processors perform some or all of the following duties:

- Operate equipment to develop negatives and slides, and to print black and white and colour photographs
- Operate photographic enlarging equipment to produce prints and enlargements from negatives
- Operate equipment to develop motion picture film
- Tend automatic equipment in retail establishments to develop colour negatives, prints and slides
- Operate equipment to transfer film to video tape
- Retouch photographic negatives or original prints to correct defects
- Splice film and mount film on reels
- Measure and mix chemicals required for processing
- Inspect rolls of photographic prints for conformance to specifications; or motion picture film to detect defects in developing and printing.

Employment requirements

- Completion of secondary school is usually required.
- For employment in film processing laboratories, completion of a college or other specialized program

  or

  Extensive related experience is required.
- For employment as a film printing machine operator in retail outlets, on-the-job training is provided.

Additional information

- Progression is possible from automatic machine tenders in retail establishments to laboratory processing occupations.
- There is mobility among occupations within laboratory processing operations.

Classified elsewhere

- Film strippers and assemblers and negative retouchers in the printing or graphic arts industry (in 9472 *Camera, Platemaking and Other Pre-Press Occupations*)
- Supervisors of photographic and film processing (in 7218 *Supervisors, Printing and Related Occupations*)

9481 Aircraft Assemblers and Aircraft Assembly Inspectors

Aircraft assemblers assemble, fit and install prefabricated parts to manufacture fixed wing or rotary wing aircraft or aircraft subassemblies. Aircraft assembly inspectors inspect aircraft assemblies for adherence to engineering specifications. They are employed by aircraft and aircraft subassembly manufacturers.

Examples of titles classified in this unit group

aircraft assembler
aircraft inspector, assembly
airframe assembler
bench and structural assembler
bench fitter mechanic – aircraft assembly
rigger – aircraft assembly
wing tank mechanic – aircraft assembly

Main duties

Aircraft assemblers perform some or all of the following duties:

- Read and interpret aircraft assembly diagrams
- Assemble and fit pre-fabricated parts to form subassemblies, working at benches or directly on an aircraft structure
- Assemble, fit and install pre-fabricated parts and subassemblies such as aircraft skins, flight controls, rigging, hydraulics and other mechanical systems.

Aircraft assembly inspectors perform some or all of the following duties:

- Inspect aircraft assemblies, using measuring and testing equipment, for adherence to engineering specifications
- Inspect assemblies for alignment, symmetry, dimensions, fit and quality of workmanship
- Complete detailed inspection documentation.

Employment requirements

- Completion of secondary school is required.
- Completion of a college or other program in aviation or aeronautical technology, with emphasis in aircraft manufacturing, may be required.
- Aircraft assemblers receive several months of on-the-job and classroom training.
- Aircraft assembly inspectors require experience as an aircraft assembler.

Additional information

- Aircraft assemblers and assembly inspectors may progress to supervisory positions with experience.

Classified elsewhere

- Aircraft engine assemblers (in 7316 *Machine Fitters*)
- *Aircraft Mechanics and Aircraft Inspectors* (7315)
- Aircraft painters (in 9496 *Painters and Coaters – Industrial*)
- Avionics and aircraft electronic equipment installers (in 2244 *Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors*)
- Supervisors of aircraft assemblers or inspectors (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9482 Motor Vehicle Assemblers, Inspectors and Testers

Motor vehicle assemblers assemble and install prefabricated motor vehicle parts and components to form subassemblies and finished motor vehicles. Motor vehicle inspectors and testers inspect and test parts, subassemblies and finished products to ensure proper performance and conformity to quality standards. They are employed in plants which manufacture automobiles, vans and light trucks.

Examples of titles classified in this unit group

assembly inspector
auto assembly worker
body assembler
car assembler
chassis inspector
door fitter
motor vehicle assembler
sports utility vehicle (SUV) assembler
test driver – automobile assembly
transmission installer
van assembler

Main duties

Motor vehicle assemblers perform some or all of the following duties:

- Bolt, screw, clip, weld, solder or otherwise fasten motor vehicle parts and components together using hand and power tools and equipment
- Operate and tend automated assembling equipment such as robotic and fixed automation equipment
- Connect cables, tubes and wires to complete assemblies and installations
- Position and install parts and subassemblies such as engines, transmissions, door panels or instrument panels using hand and power tools and other aids like overhead hoists
- Fit and adjust parts such as doors, hoods and trunk lids.

Motor vehicle inspectors and testers perform some or all of the following duties:

- Check motor vehicle exterior priming and colour coats, sealers and glazers and mark defects to be repaired
- Test motor vehicle electrical assemblies, equipment and wiring for proper performance using testing devices such as meters, analyzers and timing lights
- Inspect fully assembled motor vehicles for defects and to ensure that previously noted defects have been corrected
- Drive and test motor vehicles on roll testing device to ensure that transmission, axle, engine and brakes function properly
- Record and report motor vehicle defects.

Employment requirements

- Completion of secondary school is usually required.
- Skills required for occupations in this unit group are normally acquired through on-the-job training.

Additional information

- Mobility is possible to jobs in the same production department.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Assemblers of heavy trucks, trailers and buses (in 9486 *Mechanical Assemblers and Inspectors*)
- Automobile assembly painters and coaters (in 9496 *Painters and Coaters – Industrial*)
- Automotive engine, clutch and transmission assemblers (in 9486 *Mechanical Assemblers and Inspectors*)
- Mechanical repairers, automobile manufacturing (in 7321 *Automotive Service Technicians, Truck Mechanics and Mechanical Repairers*)
- *Supervisors, Motor Vehicle Assembling* (9221)

9483 Electronics Assemblers, Fabricators, Inspectors and Testers

Electronics assemblers and fabricators assemble and fabricate electronic equipment, parts and components. Electronics inspectors and testers inspect and test electronic and electromechanical assemblies, subassemblies, parts and components to ensure conformance to prescribed standards. They are employed in electronics manufacturing plants.

Examples of titles classified in this unit group

capacitor assembler
circuit board assembler
component inserting machine operator
crystal final tester
electronics assembler
electronics inspector
inspector, printed circuit board (PCB) assembly
precision instrument assembler – electronic equipment manufacturing
surface mount assembler
tester, electronic components
through-hole assembler
wafer fabrication operator
wave soldering machine operator
wiring and assembly operator

Main duties

Electronics assemblers perform some or all of the following duties:

- Solder and manually assemble various electronic components such as resistors, diodes, transistors, capacitors, integrated circuits, switches, wires and other electronic parts to designated locations on printed circuit boards
- Assemble microcircuits requiring fine hand assembly, the use of microscopes and adherence to cleanroom procedures
- Install, mount, fasten, align and adjust parts, components, wiring and harnesses to subassemblies and assemblies using hand and small power tools
- Operate automatic and semi-automatic machines to position, solder and clean prescribed components on printed circuit boards
- May replace defective components and repair and overhaul older devices.

Electronics fabricators perform some or all of the following duties:

- Operate and monitor process equipment including automatic and semi-automatic machines to fabricate electronic components, solder, clean, seal and stamp components and perform other process operations as specified
- Set up process equipment and adhere to cleanroom procedures as required.

Electronics inspectors perform some or all of the following duties:

- Inspect electronic components and assemblies to ensure correct component selection and placement, wiring and soldering quality, proper pin insertions, location and diameter of plated holes, breaks in circuitry and line spacing in printed circuit board and other specified requirements while products are being assembled or fabricated
- Check final assembly for finish, labelling and packaging methods
- Check mechanical dimensions and perform "go-no-go" electrical tests
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results
- Investigate equipment malfunction and instruct on proper operation.

Electronics testers perform some or all of the following duties:

- Operate various test equipment and tools to perform simple electrical and continuity testing of electronic components, parts and systems
- Set up and operate automatic testing equipment to locate circuit and wiring faults, shorts and component defects
- Compare test results to specifications and set parts or products aside for repair or replace components or parts as indicated by test equipment

- May conduct life tests (burn-ins) on components, subassemblies and assemblies
- Maintain test result reports.

Employment requirements

- Completion of secondary school is usually required for electronics assemblers, fabricators, inspectors and testers.
- On-the-job training is usually provided for occupations in this unit group.
- A two-year apprenticeship and voluntary trade certification is available for electronics assemblers in Ontario and Saskatchewan.
- Electronics testers may require post-secondary courses in basic electronic theory, testing techniques and testing equipment.
- Electronics inspectors and testers may require experience as an electronics assembler or component fabricator.

Additional information

- Progression from electronics assembler or component fabricator to electronics inspector or tester is possible with additional training and experience.

Classified elsewhere

- *Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing* (9484)
- *Electrical and Electronics Engineering Technologists and Technicians* (2241)
- *Electronic Service Technicians (Household and Business Equipment)* (2242)

9484 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing

Assemblers in this unit group assemble prefabricated parts to produce household, commercial and industrial appliances and equipment. Inspectors in this unit group inspect and test assembled products. Workers who set up and prepare assembly lines for operation are included in this unit group. Workers in this unit group are employed by electrical appliance and electrical equipment manufacturing companies.

Examples of titles classified in this unit group

assembler, electrical appliances
circuit breaker assembler
clothes dryer assembler, electric
coffeemaker assembler
dishwasher assembler
hair dryer assembler
inspector, electrical appliance assembly
inspector, electrical controls assembly
lawnmower assembler, electric
production assembler, electrical equipment
refrigerator assembler, electric

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Assemble prefabricated parts on an assembly line, or at work benches using screw guns and other hand and power tools
- Assemble small and large household electrical appliances such as coffeemakers, toasters, vacuum cleaners, lawnmowers, refrigerators and dishwashers
- Assemble small transformers, small electrical motors and transmissions used in appliances or other electrical products
- Assemble circuit breakers, switches or other electrical control equipment and position and fasten components such as springs, toggles or other parts into assembly casings
- Wind coils and armatures for small electric motors and transformers
- Perform minor repairs to products rejected from production assembly line
- Set up assembly line with materials and supplies required for production, and set up and adjust production tools.

Inspectors and testers in this unit group perform some or all of the following duties:

- Check products at different stages of production for visual defects and faulty electrical and mechanical connections, or operate automatic or other testing equipment to ensure product quality
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Inspectors may require experience as an assembler in the same company.
- Some types of inspectors may require completion of a college program in electronics.

Additional information

- With experience assemblers may progress to inspecting and testing positions.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Assemblers of electronics products, such as televisions, radios and computers (in 9483 *Electronics Assemblers, Fabricators, Inspectors and Testers*)
- Assemblers of heavy-duty electrical motors, transformers and related equipment (in 9485 *Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers*)
- *Electrical Appliance Servicers and Repairers* (7332)
- *Electrical Mechanics* (7333)
- *Machine Operators and Inspectors, Electrical Apparatus Manufacturing* (9487)
- *Supervisors, Electrical Products Manufacturing* (9223)

9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers

This unit group includes workers who assemble, fabricate, fit, wire and inspect heavy-duty industrial electrical equipment. They are employed by manufacturers of industrial electric motors, transformers, control equipment, railway locomotives, transit vehicles and other heavy electrical equipment.

Examples of titles classified in this unit group

assembler and wirer, motors and generators
assembler, switchgear and control panel
coil winder, transformer
control panel assembler
electrical fitter
fitter-assembler, alternating current (AC) and direct current (DC) motors
inspector and tester, AC and DC motors
inspector, electrical control panel
panelboard assembler – industrial electrical equipment
power transformer assembler
switchgear fitter-wirer
transformer inspector
transformer winder
winder, AC and DC armatures
wirer, electrical switchgear panels

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Assemble and fit metal and other prefabricated parts to close tolerances according to blueprints to build heavy-duty electric motors or transformers
- Assemble stators or armatures for heavy-duty electric motors; compress steel laminations to build transformer cores; assemble windings into core using overhead cranes and make electrical connections using crimping, brazing and soldering equipment
- Assemble and fit electrical motor or transformer auxiliary equipment such as bushings, tap changes, conduit boxes, heating devices, protective equipment and cooling equipment
- Set up and adjust production machinery and equipment, such as coil winding machines, for the manufacture of heavy-duty electrical equipment
- May perform basic tests on electric motors.

Electrical fitters and wirers perform some or all of the following duties:

- Interpret engineering drawings, electrical schematics and blueprints
- Fit motor starters, contactors, capacitors, circuit breakers, voltage regulators, printed circuit boards or other electrical control devices into switchboards and panelboards to produce automated processing control equipment, electrical distribution panels, or other industrial electrical control equipment
- Wire electrical connections for switchboards and panelboards
- Assemble panelboard and switchboard cabinets and install bus bars used to carry heavy electrical current
- May operate metal fabricating equipment to fabricate or modify bus bars.

Inspectors in this unit group perform some or all of the following duties:

- Monitor production and troubleshoot production problems
- Check final assembly of electric motors, transformers or control equipment for adherence to quality control standards
- Collect, record and summarize inspection result.

Employment requirements

- Completion of secondary school is usually required.
- College courses in electricity or electro-technology may be required.
- Several years on-the-job training is usually provided.
- Set-up persons, inspectors and leadhands in this unit group may require experience as an assembler, fitter or wirer in the same company.

Additional information

- Progression to supervisory positions is possible with experience.

9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers

Classified elsewhere

- Assemblers of small electrical motors, transformers, circuit breakers or similar products (in 9484 *Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing*)
- *Electrical Mechanics* (7333)
- Electrical technicians who test heavy-duty electric motors, transformers or other industrial electrical equipment (in 2241 *Electrical and Electronics Engineering Technologists and Technicians*)
- *Supervisors, Electrical Products Manufacturing* (9223)

9486 Mechanical Assemblers and Inspectors

Assemblers in this unit group assemble a wide variety of mechanical products such as trucks, buses, snowmobiles, garden tractors, automotive engines, transmissions, outboard motors, gear boxes, hydraulic pumps and sewing machines. Inspectors in this unit group check and inspect subassemblies and finished products to ensure proper quality and product specifications. They are employed by machinery and transportation equipment manufacturers and by other manufacturing companies.

Examples of titles classified in this unit group

automotive engine assembler
garden machinery assembler
gearbox assembler
gearcase assembler
hydraulic hoist assembler
mechanical assembler
sewing machine assembler
snowmobile assembler
tractor assembler
transmission assembler
truck assembler
truck assembly inspector
truck trailer assembler
vending machine assembler

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Assemble, fit and install prefabricated parts to form subassemblies or finish products using hand and power tools
- Position, align and adjust parts for proper fit and assembly and connect cables, tubes and wires
- Fasten parts together using bolting and riveting equipment or other fastening and joining techniques
- Operate or tend automated assembling equipment, such as robotics and fixed automation equipment
- Operate small cranes to transport or position larger parts as required.

Inspectors in this unit group perform some or all of the following duties:

- Check subassemblies and inspect finished products for proper quality
- Check mechanical assemblies and subassemblies for alignment and proper functioning
- Test and check electrical assemblies and wiring for proper connections
- Perform minor adjustments and repairs.

Employment requirements

- Some secondary school education is required.
- Up to two years of on-the-job training are provided.
- Experience as a mechanical assembler may be required for inspectors in this unit group.

Additional information

- Progression to supervisory positions is possible with experience.
- There is little or no mobility among the various assemblers and inspectors in this unit group.

Classified elsewhere

- *Aircraft Assemblers and Aircraft Assembly Inspectors* (9481)
- Industrial machinery, heavy equipment and aircraft engine assemblers (in 7316 *Machine Fitters*)
- *Motor Vehicle Assemblers, Inspectors and Testers* (9482)
- Supervisors of mechanical assemblers and inspectors (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9487 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

Machine operators in this unit group operate machinery or equipment to fabricate complete products or parts for use in the assembly of electrical appliances and equipment, and electrical apparatus, such as batteries, fuses and plugs. Inspectors in this unit group inspect and test completed parts and production items. Workers in this unit group are employed by electrical appliance and electrical equipment manufacturing companies.

Examples of titles classified in this unit group

assembly machine setter – electrical equipment manufacturing
battery repairer, production line
dry cell charge machine operator
epoxy coating machine operator
inspector, electrical dry battery
inspector, electrical light bulbs
machine operator – electrical appliance manufacturing
machine set-up operator, electrical equipment manufacturing

Main duties

Machine operators in this unit group perform some or all of the following duties:

- Operate machinery to assemble, test or package dry cell batteries
- Position lead acid storage batteries on assembly line and insert battery contents into casing
- Operate machinery, such as pasting and stacking machines, to fabricate plates for lead acid storage batteries
- Load machinery with glass tubes, bulbs and other parts used to produce incandescent, fluorescent and other types of light bulbs and tubes, and remove and pack finished product
- Operate or feed machinery and equipment to produce electrical wiring devices such as fuses, plugs, caps, sockets, connectors and switches
- Operate equipment to apply protective coatings to items such as freezer cabinets, small electric motors or transformer assemblies
- Perform minor repairs to items rejected from production line
- Set up and adjust production machinery and equipment for operation

Inspectors and testers in this unit group perform some or all of the following duties:

- Check in-process and completed production items for visual or mechanical defects or operate testing equipment to maintain quality of products
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection result.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Inspectors may require experience as an assembler in the same company.

Additional information

- With experience machine operators may progress to inspecting and testing positions.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing* (9484)
- *Supervisors, Electrical Products Manufacturing* (9223)

9491 Boat Assemblers and Inspectors

Boat assemblers assemble wooden, fibreglass and metal boats, such as sailboats, motorboats, canoes and cabin cruisers. Boat inspectors check assembled boats to ensure proper product quality. They are employed by boat and marine craft manufacturing companies.

Examples of titles classified in this unit group

aluminium boat assembler
boat assembler
boat inspector
canoe assembler
fibreglass boat assembler
motorboat assembler
sailboat assembler

Main duties

Boat assemblers perform some or all of the following duties:

- Cut, shape and join timber pieces or assemble pre-cut timber pieces to make a wooden boat using hand and power tools
- Assemble prefabricated parts and sections of fibreglass, metal or other material to form complete boat
- Caulk decks and hulls using caulking gun
- Install trims, rudders, seats, engine mounts and other accessories using hand tools
- May repair boats.

Boat inspectors

- Inspect assembled boats for defects and conformance to quality standards
- Mark defects to be repaired
- Make minor adjustments and repairs
- Record information on products inspected.

Employment requirements

- Some secondary school education may be required.
- Completion of college or other courses in boat building may be required.
- On-the-job training is provided.
- Experience as a helper or labourer in the same company may be required for boat assemblers.
- Experience as a boat assembler may be required for boat inspectors.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Builders of customized wooden boats and wooden shipwrights (in 7271 *Carpenters*)
- Canoe builders (in 5244 *Artisans and Craftspersons*)
- Helpers and labourers in boat assembly (in 9619 *Other Labourers in Processing, Manufacturing and Utilities*)
- Marine repair technicians (in 7383 *Other Trades and Related Occupations*)
- Supervisors of boat assemblers and inspectors (in 9227 *Supervisors, Other Products Manufacturing and Assembly*)
- Workers who fabricate, assemble and fit steel and other metal components to build ships (in 7263 *Structural Metal and Platework Fabricators and Fitters*)

9492 Furniture and Fixture Assemblers and Inspectors

This unit group includes workers who assemble parts to form subassemblies or complete articles of furniture and fixtures. Inspectors in this unit group inspect furniture and fixture subassemblies and finished products to ensure product quality. They are employed by furniture manufacturing companies.

Examples of titles classified in this unit group

assembly inspector – furniture manufacturing
chair assembler
desk assembler
fixture assembler
furniture assembler
furniture inspector
metal furniture assembler
table assembler
wood furniture assembler

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Prepare, sand and trim wooden furniture and fixture parts using hand and power tools
- Assemble wooden or metal furniture and fixture parts to form subassemblies and complete articles using hand and power tools
- Assemble a combination of parts made of wood, metal, plastic, cane or other materials to form subassemblies or complete furniture articles
- Reinforce assembled furniture and fixtures with dowels or other supports
- Install hardware such as hinges or clasps on furniture and fixtures.

Inspectors in this unit group perform some or all of the following duties:

- Inspect furniture and fixture subassemblies and finished products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.
- Experience as a labourer in the same company may be required.

Additional information

- Mobility is possible between jobs in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Furniture Finishers and Refinishers* (9494)
- *Other Wood Products Assemblers and Inspectors* (9493)
- Supervisors of workers in this unit group (in 9224 *Supervisors, Furniture and Fixtures Manufacturing*)
- *Woodworking Machine Operators* (9513)

9493 Other Wood Products Assemblers and Inspectors

Assemblers in this unit group assemble a variety of wood products and millwork, such as window sashes and doors. Inspectors in this unit group inspect wood products to ensure product quality. They are employed by establishments engaged in manufacturing a variety of wood and millwork products.

Examples of titles classified in this unit group

bench assembler, wood products
crate builder, wood
manufactured housing production worker
millwork assembler
pallet maker, wood
prefabricated housing assembler
sash and door inspector
wood products assembler
wood products assembling inspector
wooden box assembler
wooden door maker

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Read production orders and diagrams
- Trim and sand joints, moulding, or other wooden parts to be assembled using hand and power tools
- Assemble wood products such as window sashes, doors, boxes, pallets, ladders and barrels using glue, staples, screws, bolts or other fasteners
- Assemble door panels, trusses, modular components and other parts on assembly line to make prefabricated housing using jigs, overhead cranes and hand and power tools
- Reinforce assembled products with dowelling or other supports, and install hardware such as knobs and hinges
- May assist with maintenance of machinery.

Inspectors in this unit group perform some or all of the following duties:

- Inspect wood products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

Employment requirements

- Some secondary school education may be required.
- Experience as a labourer in the same company may be required.
- Inspectors may require related assembly experience.
- On-the-job training is provided.

Classified elsewhere

- *Cabinetmakers* (7272)
- *Carpenters* (7271)
- *Furniture and Fixture Assemblers and Inspectors* (9492)
- Labourers in wood products manufacturing (in 9619 *Other Labourers in Processing Manufacturing and Utilities*)
- *Supervisors, Other Products Manufacturing and Assembly* (9227)
- *Woodworking Machine Operators* (9513)

9494 Furniture Finishers and Refinishers

Furniture finishers finish new wood or metal furniture to specified colour and finish. They are employed in furniture manufacturing plants, retail furniture stores or refinishing and repair shops. Furniture refinishers refinish repaired, used or old furniture. They are employed in furniture refinishing shops or they may be self-employed.

Examples of titles classified in this unit group

finishing machine operator
furniture finisher
furniture refinisher
furniture polisher
furniture stainer
furniture stripper
touch-up person – furniture finishing
trimmer – furniture finishing
wash-off operator – furniture finishing
wood finisher

Main duties

Furniture finishers perform some or all of the following duties:

- Set up and operate finishing machines or finish furniture by hand
- Stain or finish wood to specified colour with stains, paints or other materials using brush or spray gun
- Apply toners, highlights, glazes or shaders to obtain desired finish
- Apply lacquer or other sealers
- Decorate wood surfaces or mark surfaces to create antique or other effects using hand and power tools
- Clean and polish furniture
- Sand metal furniture to prepare for finish and spray with paint or other materials.

Refinishers perform some or all of the following duties:

- Strip old finish from wood surfaces using steel wool, sandpaper and solvents
- Smooth gouges with wood filler and sand wood
- Match colours to obtain original finish and apply appropriate finish to stripped wood
- Polish and wax refinished surfaces
- Sand or grind metal surfaces to prepare for coating, and paint metal surfaces using electrostatic method, spray gun or other painting equipment
- Make minor repairs to furniture
- May perform duties of furniture finisher.

Employment requirements

- Some secondary school education is required.
- College, high school or industry courses in furniture finishing or refinishing may be required.
- On-the-job training is provided.

Classified elsewhere

- *Painters and Decorators* (7294)
- *Upholsterers* (7341)

9495 Plastic Products Assemblers, Finishers and Inspectors

This unit group includes workers who assemble, finish and inspect plastic parts and finished products. They are employed by plastic products manufacturing companies and plastic parts divisions of aircraft or other manufacturing companies.

Examples of titles classified in this unit group

fibreglass laminator
plastic bottle trimmer
plastic parts assembler
plastic products fabricator
plastic products inspector and tester
plastic tank assembler
plastics assembler
plastics inspector
plastics trimmer
skylight assembler

Main duties

Plastic product assemblers and finishers perform some or all of the following duties:

- Operate machines or equipment, or use hand tools to cut, shape, splice and fit plastic materials to form parts and assemblies
- Assemble composite materials on patterns to form parts and assemblies using bonding agents
- Operate spray-gun unit to apply resin mixtures to metal or wooden mould to form plastic products
- Load and operate autoclave oven to cure and bond plastic parts and subassemblies
- Operate finishing equipment to trim, grind or buff plastic products into final form.

Plastics product inspectors perform some or all of the following duties:

- Inspect manufactured plastic products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved plastic products and mark and reroute defective products for repair or recycle
- Prepare reports on products inspected
- Make minor adjustments and repairs to products.

Employment requirements

- Some secondary school education is usually required.
- Experience as a labourer in the same company may be required for assemblers, finishers and inspectors.
- On-the-job training is provided.

Additional information

- Progression to supervisory positions is possible with experience.
- Mobility among the various workers in this unit group is possible.

Classified elsewhere

- *Labourers in Rubber and Plastic Products Manufacturing* (9615)
- *Plastics Processing Machine Operators* (9422)
- *Rubber Processing Machine Operators and Related Workers* (9423)
- *Supervisors, Plastic and Rubber Products Manufacturing* (9214)

9496 Painters and Coaters – Industrial

Painters and coaters in this unit group tend and operate machines or use brushes and spray equipment to apply paint, enamel, lacquer or other non-metallic protective and decorative coatings to surfaces of various products. They are employed by manufacturing companies, specialized coating shops and refinishing establishments.

Examples of titles classified in this unit group

assembly painter
automobile painter – motor vehicle manufacturing
aviation painter
bathtub refinisher
coating machine operator – industrial painting and coating
dip tank attendant
enameller
industrial products painter
manufacturing painter
paint machine operator
paint systems operator
production painter
robotic spray paint attendant
rustproofer, motor vehicle
spray paint operator
spray painter

Main duties

Painters and coaters in this unit group perform some or all of the following duties:

- Select appropriate paint or mix paints using automated paint mixing equipment according to a pre-determined formula
- Tend or operate equipment to clean, wash, strip, sand, remove corrosion, fill dents or otherwise prepare items for application of paint, lacquer or other protective or decorative coatings
- Tend or operate automated spray paint, dip or flow coating equipment or other mechanized painting or product coating application equipment
- Operate hand-held spray guns to spray paint or coat stationary items or items on moving conveyor system with protective or decorative coatings
- Paint small items and apply touch-ups using paint brushes
- Clean and maintain painting and coating, ventilation, compressed air and personal protective equipment
- May prepare and apply stencils, computer-generated decals or other decorative items on finished products.

Employment requirements

- Some secondary school education is usually required.
- Several months of on-the-job training are usually provided.
- Some industrial painters, such as aviation painters, require specialized training or college courses.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Autobody repair painters or repainters (in 7322 *Motor Vehicle Body Repairers*)
- Construction painters (in 7294 *Painters and Decorators*)
- *Furniture Finishers and Refinishers* (9494)
- *Plating, Metal Spraying and Related Operators* (9497)
- Supervisors of manufacturing painters and coaters (in 9214 *Supervisors, Plastic and Rubber Products Manufacturing* and in 922 *Supervisors, Assembly and Fabrication*)

9497 Plating, Metal Spraying and Related Operators

This unit group includes workers who operate machines or equipment to deposit metallized substances on metal or other articles to provide decorative, protective or restorative coatings. They are employed by metal products manufacturing companies and by customized metal plating and coating shops.

Examples of titles classified in this unit group

anodizer
electroplater operator
galvanizer
metal coater operator
metal dipper
metal electroplater
metal spray operator
sherardizer

Main duties

Operators in this unit group perform some or all of the following duties:

- Prepare and mix metallizing solutions according to formulas or specifications
- Operate and control electroplating equipment to coat metal and other objects
- Operate hot-dip metal plating equipment to galvanize metal and other objects
- Tend automatic metal coating machine which conveys objects through series of cleaning, rinsing and plating solutions
- Operate spray equipment to build up worn or damaged parts or to bond protective or decorative coatings on metal objects
- Check proper thickness of plating using micrometers, callipers or other devices
- May clean and prepare metal parts for coating
- May tend ovens which cure metal coating.

Employment requirements

- Some secondary school education is usually required.
- Experience in operating production machinery or equipment may be required.
- Three to six months of on-the-job training are usually required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- Production painters (in 9496 *Painters and Coaters – Industrial*)
- Supervisors of operators in this unit group (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9498 Other Assemblers and Inspectors

This unit group includes assemblers and inspectors, not elsewhere classified, who assemble and inspect a variety of products, such as jewellery, silverware, clocks and watches, musical instruments, sporting goods, toys, and other miscellaneous products. They are employed by a wide variety of manufacturing companies.

Examples of titles classified in this unit group

antenna assembler
bicycle assembler
camera assembly inspector
eyeglass frame assembler
golf club assembler
jewellery inspector
lamp shade assembler
piano assembly inspector
toy inspector
Venetian blind assembler
watch assembler

Main duties

Assemblers in this unit group perform some or all of the following duties:

- Cut, shape and fit materials to form parts and components
- Screw, clip, glue, bond, weld or otherwise assemble parts and components to form final products
- Sand, trim, grind or clean products into final form using hand tools.

Inspectors in this unit group perform some or all of the following duties:

- Check manufactured items for defects and for conformance to specifications, visually or using sample models and instruments
- Affix seals or tags to approved items and return defective products for repair or recycle
- Complete reports on product inspection.

Employment requirements

- Some secondary school education is usually required.
- Experience as a manufacturing labourer in the same company may be required.
- On-the-job training is provided.

Additional information

- There is little or no mobility among the various assemblers and inspectors in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Other Products Machine Operators* (9517)
- *Supervisors, Other Products Manufacturing and Assembly* (9227)

9511 Machining Tool Operators

Machining tool operators set up and operate or tend metal-cutting machines designed for repetitive machining work. They are employed by metal products and other manufacturing companies and in machine shops. This unit group also includes workers who etch or chemically mill metal pieces.

Examples of titles classified in this unit group

aircraft parts etcher
boring mill operator – metal machining
CNC machining tool operator
lathe machining operator
machining tool operator
milling machine set-up operator
production gear cutter
production grinder operator – metal machining
radial drill operator – metal machining

Main duties

Machining tool operators perform some or all of the following duties:

- Study job orders or interpret blueprints to determine machining operations to be performed
- Set up and operate machine tools to perform repetitive machining operations, such as turning, milling, drilling, boring, planing, honing, broaching, grinding or other machining operations
- Verify dimensions of parts machined using micrometers, callipers and other precision measuring instruments
- Prepare etching solution and immerse metal parts or workpiece in etching solution to remove unwanted portions
- Perform routine maintenance on equipment and machinery
- May enter codes specifying speed, feed and cut of the toolpath for computer numerically controlled (CNC) machine tools.

Employment requirements

- Some secondary school education is required.
- College or other courses in machining may be required.
- Several months of on-the-job training are provided.
- Senior positions in this unit group, such as set-up operator, require experience as a machine operator.

Additional information

- Experienced machining tool operators may become machinists or tool and die makers through apprenticeship training.

Classified elsewhere

- CAD-CAM and CNC programmers (in 2233 *Industrial Engineering and Manufacturing Technicians and Technologists*)
- *Machinists and Machining and Tooling Inspectors* (7231)
- *Supervisors, Machinists and Related Occupations* (7211)
- *Tool and Die Makers* (7232)

9512 Forging Machine Operators

Forging machine operators operate forging machines to form and shape metal into various shapes and sizes and impart desired strength, hardness or other characteristics. They are employed primarily in the fabricated metal products, machinery, and transportation equipment industries.

Examples of titles classified in this unit group

bending machine operator
cold drawn operator
cold press operator
forging press operator
hot press operator
manipulator operator
trip hammer operator
upsetter operator

Main duties

Forging machine operators perform some or all of the following duties:

- Operate gas or oil fired furnaces to heat metal to proper temperature prior to forging
- Place metal pieces in furnace using hand tongs or overhead cranes and remove from furnace when colour of metal indicates proper forging temperature, or load and unload furnace with automatic conveyor
- Position heated or cold metal pieces, on die of press or other forging machinery
- Operate presses or other forging machines to perform hot or cold forging by flattening, straightening, twisting, forming, drawing, upsetting, splitting, cutting, punching, piercing, bending, coining, or other operations to shape or form metal
- Position and adjust dies on anvil of forging machinery using overhead cranes or other hoisting devices and hand tools.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training is provided.

Additional information

- Progression to blacksmith, die setting, or supervisory positions is possible with experience.

Classified elsewhere

- *Blacksmiths and Die Setters* (7266)
- Supervisors of forging machine operators (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9513 Woodworking Machine Operators

Woodworking machine operators set up, program and operate one or more woodworking machines to fabricate or repair wooden parts for furniture, fixtures or other wood products. They are employed in furniture, fixture and other wood products manufacturing establishments.

Examples of titles classified in this unit group

boring machine operator – woodworking
CNC band saw operator – woodworking
drum sander – woodworking
edge bander operator – woodworking
glue machine operator – woodworking
lathe operator – woodworking
planer operator – woodworking
rough mill operator – woodworking
shaper – woodworking
woodworking machine operator

Main duties

Woodworking machine operators perform some or all of the following duties:

- Set up, program and operate one or more computer numerically controlled (CNC) or manual woodworking machines such as saws, moulders, lathes, routers, planers, edgers, pressing machines, shapers, drills and sanders to fabricate or repair wooden parts for furniture, fixtures and other wood products
- Operate gluing machines to glue pieces of wood together or press and affix wood veneer to wood surfaces
- Operate pre-set special-purpose woodworking machines to fabricate wood products such as coat hangers, mop handles, clothes pins and other products
- Read and interpret specifications or follow verbal instructions
- May clean and lubricate equipment, and replace parts as necessary.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is usually provided.
- Experience as a labourer in the same company may be required.

Additional information

- Mobility is common among jobs in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Cabinetmakers* (7272)
- *Carpenters* (7271)
- Supervisors of woodworking machine operators (in 9224 *Supervisors, Furniture and Fixtures Manufacturing*)

9514 Metalworking Machine Operators

Light metalworking machine operators operate metalworking machines which shape and form sheet or other light metal into parts or products. They are employed by sheet metal products manufacturing companies, sheet metal shops and other light metal products manufacturing establishments. Heavy metalworking machine operators operate metalworking machines which shape and form steel or other heavy metal into parts or products. They are employed by structural steel fabrication, boiler and platework manufacturing companies, heavy machinery manufacturing companies and in the shipbuilding industry.

Examples of titles classified in this unit group

disk flange operator
metalworking machine operator
power press operator
press brake operator
punch press operator
rolls operator
saw operator – metal fabrication
shear operator
vertical press operator

Main duties

Metalworking machine operators perform some or all of the following duties:

- Read specifications or follow verbal instructions
- Set up and operate one or more light or heavy metalworking machines such as shears, power presses, saws, plate rolls, drills, brakes, slitters, punch press, and computer numerically controlled (CNC) equipment to cut, bend, roll, ream, punch and drill, or otherwise shape and form metal stock into parts or products
- Operate machines or equipment which weld, solder, bolt, screw or rivet metal parts together
- Check products for correct shapes, dimensions and other specifications
- May select and transport material to work area manually or using crane or hoist
- May build staging or scaffolding as required for heavy metalworking jobs
- May clean or lubricate equipment and replace parts as required.

Employment requirements

- Some secondary school education is required.
- On-the-job training is usually provided.
- Previous experience as a labourer or helper in the same company may be required.

Additional information

- There is little or no mobility between operators of light and heavy metalworking machines.
- Progression to structural metal fabricator or supervisory positions is possible with experience.

Classified elsewhere

- *Sheet Metal Workers* (7261)
- *Structural Metal and Platework Fabricators and Fitters* (7263)
- Supervisors of metalworking machine operators (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9516 Other Metal Products Machine Operators

This unit group includes metal products machine operators, not elsewhere classified, who operate one or more automatic or multi-purpose machines to produce a variety of metal parts and products, such as wire mesh, nails, bolts and chains. They are employed by a wide variety of metal products manufacturing companies.

Examples of titles classified in this unit group

bolt machine operator
bullet maker
can forming machine operator
chain making machine operator
metal cable maker operator
nail making machine tender
spring machine operator
wire screen maker
wire weaver

Main duties

Machine operators in this unit group perform some or all of the following duties:

- Operate or tend automatic or multi-purpose machines including wire looms to produce metal parts and metal products such as wire screening, fencing, tinware, metal baskets, racks, hooks, metal tubing and similar articles
- Fit and assemble components using hand and power tools
- Clean, polish, file or otherwise finish products
- Check products for quality and other specifications
- May clean and lubricate machinery.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Experience as a labourer in the same company may be required.

Additional information

- There is some mobility among machine operators in this unit group.
- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Forging Machine Operators* (9512)
- *Machining Tool Operators* (9511)
- *Metalworking Machine Operators* (9514)
- Supervisors of machine operators in this unit group (in 9226 *Supervisors, Other Mechanical and Metal Products Manufacturing*)

9517 Other Products Machine Operators

This unit group includes all machine operators, not elsewhere classified, who operate machines to cut, press, stamp, mould, treat, finish or otherwise fabricate components or products, such as jewellery, buttons, pencils, crayons, non-prescription lenses, brushes, notions and other miscellaneous products. They are employed by a wide variety of manufacturing companies.

Examples of titles classified in this unit group

brush making machine operator
button machine operator
crayon making machine tender
jewellery annealer
prism maker operator
skate press operator
sports ball moulder
stuffing machine tender
tennis ball maker operator

Main duties

Machine operators in this unit group perform some or all of the following duties:

- Operate machines which cut, press, stamp, mould, treat, finish or otherwise fabricate components or products
- Load supplies into hoppers of dispensing units or manually align, feed or otherwise place materials into machines
- Monitor machines for proper operation watching for jammed materials, defective units or other irregularities
- Clean work stations, removing scraps, dust, shavings or other by-products from machinery and surrounding areas
- May make routine changes of dies, nozzles or other machinery attachments as required.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Experience as a labourer in the same company may be required.

Additional information

- Progression to supervisory positions is possible with experience.

Classified elsewhere

- *Other Assemblers and Inspectors* (9498)
- Supervisors of machine operators in this unit group (in 9227 *Supervisors, Other Products Manufacturing and Assembly*)

9611 Labourers in Mineral and Metal Processing

Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to mineral ore and metal processing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Examples of titles classified in this unit group

asbestos worker
billet pusher
brick and tile kiln cleaner
casting helper
foundry labourer
furnace helper
glass packer
kiln labourer
metal pourer helper
rolling mill worker
salt screening labourer
tailings labourer

Main duties

Labourers in mineral and metal processing perform some or all of the following duties:

- Transport raw materials, finished products, scrap and recyclable materials throughout plant manually or using forklift or other powered equipment
- Feed conveyors, crushers and other equipment; open valves and start pumps; skim dross from furnaces; sort, stack, bundle and stamp materials; and perform other activities to assist process and machine operators in mineral ore and metal processing
- Clean work areas and equipment
- May assist with minor repairs and maintenance.

Employment requirements

- Completion of secondary school may be required for some positions in this group.

Additional information

- Progression to machine and process operator positions is possible with experience.

Classified elsewhere

- *Labourers in Metal Fabrication* (9612)
- *Machine Operators and Related Workers in Metal and Mineral Products Processing* (941)

9612 Labourers in Metal Fabrication

Labourers in this unit group remove excess metal and unwanted materials from metal parts, castings and other metal products and perform other labouring activities. They are employed in structural steel, boiler and platework fabrication plants, heavy machinery manufacturing plants, sheet metal fabrication shops, shipbuilding and other metal products manufacturing companies.

Examples of titles classified in this unit group

chipper-grinder
forge helper
grinder-deburrer
labourer – metal fabrication
metal cleaner
metalworking machine helper
plater helper
shipfitter helper
shotblaster
wheelabrator operator

Main duties

Labourers in this unit group perform some or all of the following duties:

- Read and interpret work orders
- Operate metal cleaning equipment such as wheelabrators, deburrers and shotblasters to remove excess welds, rust, scale and other material from surfaces of metal parts, castings and other metal products
- Immerse metal products in cleaning solutions
- Assist structural steel and platework fitters, sheet metal workers, metalworking machine operators or other metal workers
- Transport raw materials and finished metal products manually or using hoists or other devices
- Sort metal sheets and parts, scrap metal and other materials
- Clean work areas and equipment
- Load and unload vehicles using hand truck or dolly
- May grind or chip excess metal from metal products using hand tools.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility between occupations in this unit group.
- Progression to metalworking machine operator positions is possible with experience.

Classified elsewhere

- *Labourers in Mineral and Metal Processing* (9611)
- Metal machine operators (in several unit groups in 951 *Machining, Metalworking, Woodworking and Related Machine Operators*)

9613 Labourers in Chemical Products Processing and Utilities

Labourers in this unit group carry out a variety of material handling, cleaning and routine general labouring activities. They are employed by petroleum and natural gas processing, pipeline and petrochemical, chemical and pharmaceutical companies, and by electrical, water and waste treatment utilities.

Examples of titles classified in this unit group

cleaner, filter – chemical processing
cleaner, still – chemical processing
coating machine feeder – chemical processing
helper – chemical processing
labourer – gas utility
loader – chemical processing
retort unloader
water intake tender
waterworks labourer

Main duties

Labourers in this unit group perform some or all of the following duties:

- Feed and unload production machinery and equipment
- Clean chemical processing machines and equipment and production areas
- Move, sort and pile materials and products manually and using powered equipment
- Assist other workers to operate, repair and maintain process equipment, gas distribution, water filtration and waste water plant equipment
- Perform general duties such as basic construction, painting and other manual tasks.

Employment requirements

- Completion of secondary school may be required.

Additional information

- Considerable mobility is possible among jobs in this occupational group.
- Progression to operator positions in the chemical or utility industry is possible with experience and appropriate entry qualifications.

Classified elsewhere

- *Chemical Plant Machine Operators* (9421)
- *Petroleum, Gas and Chemical Process Operators* (9232)
- *Power Systems and Power Station Operators* (7352)
- *Supervisors, Petroleum, Gas and Chemical Processing and Utilities* (9212)
- *Water and Waste Plant Operators* (9424)
- *Waterworks and Gas Maintenance Workers* (7442)

9614 Labourers in Wood, Pulp and Paper Processing

Labourers in this unit group carry out a variety of general labouring and routine wood processing activities and assist pulp mill and papermaking machine operators. They are employed by pulp and paper, and paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Examples of titles classified in this unit group

beater operator helper – pulp and paper
chip bin attendant – wood processing
conveyor cleaner – pulp and paper
green wood chainman/woman – wood processing
grinder feeder – pulp and paper
labourer – pulp and paper
labourer – wood processing
lumber straightener – wood processing
plywood drier feeder
sheeter helper – pulp and paper
utility man/woman – pulp and paper

Main duties

Labourers in this unit group perform some or all of the following duties:

- Feed logs onto conveyor and into hopper of grinding machine and align logs manually, using crowbar, picaroon or other tools and equipment
- Load wood chips, pulpwood, sulphur and other processing materials onto conveyors or processing tanks, remove recyclable paper and pulp from pulp and papermaking machines and transport recyclable paper and pulp to plant processing machines and equipment using forklift or other powered equipment
- Sort, pile and transport lumber, veneer sheets, panelboards and similar wood products during various stages of wood processing, manually or with powered equipment
- Remove scrap lumber and wood chips for reprocessing using forklift or other powered equipment
- Feed conveyors, saws, drying machines and other equipment to process lumber, shingles, veneer, plywood and similar wood products
- Clean wood processing machines and equipment and work areas using shovels, hoses and other tools
- Assist other wood processing workers to operate, maintain and repair various machines and equipment and carry out other wood processing activities.

Employment requirements

- Completion of secondary school is required by the pulp and paper industry and by other large employers.

Additional information

- There is considerable mobility among jobs within individual establishments.
- Progression to machine or plant operating positions is possible with experience.

Classified elsewhere

- *Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing* (943)
- *Supervisors, Forest Products Processing* (9215)

9615 Labourers in Rubber and Plastic Products Manufacturing

Labourers in this unit group assist machine operators, transport materials and perform similar tasks. They are employed by rubber and plastic products manufacturing companies.

Examples of titles classified in this unit group

belt builder helper
labourer – plastic products manufacturing
labourer – rubber products manufacturing
machine off-bearer – rubber products manufacturing
mould cleaner – rubber products manufacturing
moulded products stripper – rubber and plastic products manufacturing
roll changer – rubber manufacturing
spreader operator helper – plastic products manufacturing

Main duties

Labourers in this unit group perform some or all of the following duties:

- Assist machine operators or assemblers in performing their duties
- Assist in setting up and dismantling machinery and equipment
- Clean and lubricate machinery and equipment
- Transport materials and tools to and from work areas using hand trucks or other conveyance
- Prepare raw materials for mixing process
- Monitor machines to watch for jammed materials or defective products.

Employment requirements

- Some secondary school education is usually required.

Additional information

- Progression to machine operator or assembler positions in rubber and plastic products manufacturing is possible with experience.

Classified elsewhere

- *Plastic Products Assemblers, Finishers and Inspectors* (9495)
- *Plastics Processing Machine Operators* (9422)
- *Rubber Processing Machine Operators and Related Workers* (9423)
- *Supervisors, Plastic and Rubber Products Manufacturing* (9214)

9616 Labourers in Textile Processing

Labourers in textile processing perform a variety of manual duties to assist in processing fibres into yarn or thread, or to assist in weaving, knitting, bleaching, dyeing or finishing textile fabrics or other textile products. They are employed by textile companies.

Examples of titles classified in this unit group

doffer
dyeing and finishing machine loader
helper – textiles
textile machine cleaner
waste machine feeder
yarn handler

Main duties

Labourers in textile processing perform some or all of the following duties:

- Load and off-load machines
- Clean textile machines and work areas
- Push carts, trucks, or cans of fibres from one work area to another
- Assist machine operators and other textile workers as required.

Employment requirements

- Some secondary school education may be required.

Additional information

- Progression to machine operator positions is possible with experience.

Classified elsewhere

- *Machine Operators and Related Workers in Textile Processing* (944)
- *Supervisors, Textile Processing* (9216)

9617 Labourers in Food, Beverage and Tobacco Processing

Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to food, beverage and tobacco processing. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food, beverage and tobacco processing plants.

Examples of titles classified in this unit group

bottle washer
brewery labourer
cigarette packer
dairy helper
food processing labourer
meat packager
potato chip sorter
production helper

Main duties

Labourers in food, beverage and tobacco processing perform some or all of the following duties:

- Transport raw materials, finished products and packaging materials throughout plant and warehouse manually or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines or mobile tank trucks
- Feed flattened boxes into forming machines to construct containers
- Remove filled containers from conveyors and manually pack goods into bags, boxes or other containers
- Clean work areas and equipment
- Feed and unload tobacco processing machines
- Check products and packaging for basic quality defects
- Assist process control and machine operators in performing their duties.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility among occupations in this group.
- Labourers in food, beverage and tobacco processing may progress to machine or process operating positions with experience.

Classified elsewhere

- *Labourers in Fish Processing* (9618)
- *Process Control and Machine Operators, Food and Beverage Processing* (9461)
- *Tobacco Processing Machine Operators* (9464)

9618 Labourers in Fish Processing

Labourers in this unit group perform clean-up, packaging, material handling and other elemental activities related to fish processing. They are employed in fish processing and packaging plants.

Examples of titles classified in this unit group

cannery labourer
fish briner
fish plant labourer
fish salter
fish weigher
shellfish labourer
shellfish packer

Main duties

Labourers in fish processing perform some or all of the following duties:

- Unload fish and shellfish from fishing vessels and transport them by hand or forklift truck to work area in fish processing plant
- Immerse fresh fish fillets in brine solution to condition them for wrapping or freezing
- Weigh fish or shellfish, record weight and pack fish in ice
- Sort fish according to species, weight and destination
- Clean work areas and equipment
- Transport supplies and packaging materials throughout plant and storage area manually or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines.

Employment requirements

- Some secondary school education may be required.

Additional information

- Progression to other occupations in the fish processing industry is possible with experience.

Classified elsewhere

- *Fish Plant Workers* (9463)
- Foremen/women of workers in fish processing (in 9213 *Supervisors, Food, Beverage and Tobacco Processing*)

9619 Other Labourers in Processing, Manufacturing and Utilities

This unit group includes labourers, not elsewhere classified, who perform material handling, clean-up, packaging and other elemental activities in processing, manufacturing and utilities. They are employed by companies that manufacture products such as clothing, footwear, furniture and electrical and electronic products and by printing and packaging companies.

Examples of titles classified in this unit group

bindery helper
box packer
carton marker
chair sander
clothing plant labourer
electrical products labourer
film cutter – film processing
furniture packer
garment folder
labourer, shoe manufacturing
lens blocker
packager, machine
seed packager
sorter, recyclable materials
upholsterer helper

Main duties

Labourers in this unit group perform some or all of the following duties:

- Transport raw materials, finished products and equipment throughout plant manually or using powered equipment
- Check and weigh materials and products
- Sort, pack, crate and package materials and products
- Assist machine operators, assemblers and other workers
- Clean work areas and equipment
- Perform other labouring and elemental activities.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility among occupations in this unit group.
- Progression to machine operating positions is possible with experience.

Classified elsewhere

- Supervisors of labourers in this unit group (in 9227 *Supervisors, Other Products Manufacturing and Assembly*)

APPENDIX

Classification Structure of the National Occupational Classification for Statistics

The *National Occupational Classification for Statistics* (NOC-S)

Statistics Canada has implemented a two-part numbering system in its publication to link the statistical aggregation to the NOC codes. The first part of the numbering system indicates the placement of the minor and unit groups within the NOC-S aggregation structure, and the second part of the numbering system, following a decimal point, represents the NOC code. This two-part numbering system allows users to relate data produced by Statistics Canada to the minor and unit groups of the NOC. The NOC and the NOC-S represent one classification framework for measuring economic activity in the Canadian labour market and for providing information about the work of Canadians.

The structure of the NOC-S follows. Further information about the NOC-S can be obtained from:

Standards Division
Statistics Canada
Jean Talon Building, 12th Floor
Ottawa, Ontario
K1A 0T6

Phone: (613) 951-8576
Fax: (613) 951-8578
Internet: http://www.statcan.ca/english/Subjects/Standard/standard_classifications.htm

A MANAGEMENT OCCUPATIONS

A0 SENIOR MANAGEMENT OCCUPATIONS

A01.001	**Legislators and Senior Management**
A011.0011	Legislators
A012.0012	Senior Government Managers and Officials
A013.0013	Senior Managers – Financial, Communications and Other Business Services
A014.0014	Senior Managers – Health, Education, Social and Community Services and Membership Organizations
A015.0015	Senior Managers – Trade, Broadcasting and Other Services, n.e.c.
A016.0016	Senior Managers – Goods Production, Utilities, Transportation and Construction

A1 SPECIALIST MANAGERS

A11.011	**Administrative Services Managers**
A111.0111	Financial Managers
A112.0112	Human Resources Managers
A113.0113	Purchasing Managers
A114.0114	Other Administrative Services Managers
A12.021	**Managers in Engineering, Architecture, Science and Information Systems**
A121.0211	Engineering Managers
A122.0213	Computer and Information Systems Managers
A123.0212	Architecture and Science Managers
A13.061	**Sales, Marketing and Advertising Managers**
A131.0611	Sales, Marketing and Advertising Managers
A14.072	**Facility Operation and Maintenance Managers**
A141.0721	Facility Operation and Maintenance Managers

A2 MANAGERS IN RETAIL TRADE, FOOD AND ACCOMMODATION SERVICES

A21.062	**Managers in Retail Trade**
A211.0621	Retail Trade Managers
A22.063	**Managers in Food Service and Accommodation**
A221.0631	Restaurant and Food Service Managers
A222.0632	Accommodation Service Managers

A3 OTHER MANAGERS N.E.C.

A30.012	**Managers in Financial and Business Services**
A301.0121	Insurance, Real Estate and Financial Brokerage Managers
A302.0122	Banking, Credit and Other Investment Managers
A303.0123	Other Business Services Managers
A31.013	**Managers in Communication (Except Broadcasting)**
A311.0131	Telecommunication Carriers Managers
A312.0132	Postal and Courier Services Managers

A32.031	**Managers in Health, Education, Social and Community Services**
A321.0311	Managers in Health Care
A322.0312	Administrators – Post-Secondary Education and Vocational Training
A323.0313	School Principals and Administrators of Elementary and Secondary Education
A324.0314	Managers in Social Community and Correctional Services
A33.041	**Managers in Public Administration**
A331.0411	Government Managers – Health and Social Policy Development and Program Administration
A332.0412	Government Managers – Economic Analysis, Policy Development and Program Administration
A333.0413	Government Managers – Education Policy Development and Program Administration
A334.0414	Other Managers in Public Administration
A34.051	**Managers in Art, Culture, Recreation and Sport**
A341.0511	Library, Archive Museum and Art Gallery Managers
A342.0512	Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts
A343.0513	Recreation and Sports Program and Service Directors
A35.064	**Managers in Protective Service**
A351.0641	Commissioned Police Officers
A352.0642	Fire Chiefs and Senior Fire-fighting Officers
A353.0643	Commissioned Officers, Armed Forces
A36.065	**Managers in Other Services**
A361 0651	Other Services Managers
A37.071	**Managers in Construction and Transportation**
A371.0711	Construction Managers
A372.0712	Residential Home Builders and Renovators
A373.0713	Transportation Managers
A38.081	**Managers in Primary Production (Except Agriculture)**
A381.0811	Primary Production Managers (Except Agriculture)
A39.091	**Managers in Manufacturing and Utilities**
A391.0911	Manufacturing Managers
A392.0912	Utilities Managers

B BUSINESS, FINANCE AND ADMINISTRATIVE OCCUPATIONS

B0 PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

B01.111	**Auditors, Accountants and Investment Professionals**
B011.1111	Financial Auditors and Accountants
B012.1112	Financial and Investment Analysts
B013.1113	Securities Agents, Investment Dealers and Brokers
B014.1114	Other Financial Officers
B02.112	**Human Resources and Business Service Professionals**
B021.1121	Specialists in Human Resources
B022.1122	Professional Occupations in Business Services to Management

B1 FINANCE AND INSURANCE ADMINISTRATION OCCUPATIONS

B11.123	**Finance and Insurance Administrative Occupations**
B111.1231	Bookkeepers
B112.1232	Loan Officers
B113.1233	Insurance Adjusters and Claims Examiners
B114.1234	Insurance Underwriters
B115.1235	Assessors, Valuators and Appraisers
B116.1236	Customs, Ship and Other Brokers

B2 SECRETARIES

B21.124	**Secretaries, Recorders and Transcriptionists**
B211.1241	Secretaries (Except Legal and Medical)
B212.1242	Legal Secretaries
B213.1243	Medical Secretaries
B214.1244	Court Recorders and Medical Transcriptionists

B3 ADMINISTRATIVE AND REGULATORY OCCUPATIONS

B31.122	**Administrative and Regulatory Occupations**
B311.1221	Administrative Officers
B312.1222	Executive Assistants
B313.1223	Personnel and Recruitment Officers
B314.1224	Property Administrators
B315.1225	Purchasing Agents and Officers
B316.1226	Conference and Event Planners
B317.1227	Court Officers and Justices of the Peace
B318.1228	Immigration, Employment Insurance and Revenue Officers

B4 CLERICAL SUPERVISORS

B41.121	**Clerical Supervisors**
B411.1211	Supervisors, General Office and Administrative Support Clerks
B412.1212	Supervisors, Finance and Insurance Clerks
B413.1213	Supervisors, Library Correspondence and Related Information Clerks
B414.1214	Supervisors, Mail and Message Distribution Occupations
B415.1215	Supervisors, Recording, Distributing and Scheduling Occupations

B5 CLERICAL OCCUPATIONS

B51.141	**Clerical Occupations, General Office Skills**
B511.1411	General Office Clerks
B513.1413	Records Management and Filing Clerks
B514.1414	Receptionists and Switchboard Operators
B52.142	**Office Equipment Operators**
B522.1422	Data Entry Clerks
B523.1423	Desktop Publishing Operators and Related Occupations
B524.1424	Telephone Operators
B53.143	**Finance and Insurance Clerks**
B531.1431	Accounting and Related Clerks
B532.1432	Payroll Clerks
B533.1433	Customer Service Representatives – Financial Services

B534.1434	Banking, Insurance and Other Financial Clerks
B535.1435	Collectors
B54.144	**Administrative Support Clerks**
B541.1441	Administrative Clerks
B542.1442	Personnel Clerks
B543.1443	Court Clerks
B55.145	**Library, Correspondence and Related Information Clerks**
B551.1451	Library Clerks
B552.1452	Correspondence, Publication and Related Clerks
B553.1453	Customer Service, Information and Related Clerks
B554.1454	Survey Interviewers and Statistical Clerks
B56.146	**Mail and Message Distribution Occupations**
B561.1461	Mail, Postal and Related Clerks
B562.1462	Letter Carriers
B563.1463	Couriers, Messengers and Door-to-Door Distributors
B57.147	**Recording, Scheduling and Distributing Occupations**
B571.1471	Shippers and Receivers
B572.1472	Storekeepers and Parts Clerks
B573.1473	Production Clerks
B574.1474	Purchasing and Inventory Clerks
B575.1475	Dispatchers and Radio Operators
B576.1476	Transportation Route and Crew Schedulers

C NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

C0 PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

C01.211	**Physical Science Professionals**
C011.2111	Physicists and Astronomers
C012.2112	Chemists
C013.2113	Geologists, Geochemists and Geophysicists
C014.2114	Meteorologists
C015.2115	Other Professional Occupations in Physical Sciences
C02.212	**Life Science Professionals**
C021.2121	Biologists and Related Scientists
C022.2122	Forestry Professionals
C023.2123	Agricultural Representatives, Consultants and Specialists
C03.213	**Civil, Mechanical, Electrical and Chemical Engineers**
C031.2131	Civil Engineers
C032.2132	Mechanical Engineers
C033.2133	Electrical and Electronics Engineers
C034.2134	Chemical Engineers
C04.214	**Other Engineers**
C041.2141	Industrial and Manufacturing Engineers
C042.2142	Metallurgical and Materials Engineers
C043.2143	Mining Engineers
C044.2144	Geological Engineers
C045.2145	Petroleum Engineers

C046.2146	Aerospace Engineers
C047.2147	Computer Engineers (Except Software Engineers)
C048.2148	Other Professional Engineers, n.e.c.
C05.215	**Architects, Urban Planners and Land Surveyors**
C051.2151	Architects
C052.2152	Landscape Architects
C053.2153	Urban and Land Use Planners
C054.2154	Land Surveyors
C06.216	**Mathematicians, Statisticians and Actuaries**
C061.2161	Mathematicians, Statisticians and Actuaries
C07.217	**Computer and Information Systems Professionals**
C071.2171	Information Systems Analysts and Consultants
C072.2172	Database Analysts and Data Administrators
C073.2173	Software Engineers
C074.2174	Computer Programmers and Interactive Media Developers
C075.2175	Web Designers and Developers

C1 TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

C11.221	**Technical Occupations in Physical Sciences**
C111.2211	Chemical Technologists and Technicians
C112.2212	Geological and Mineral Technologists and Technicians
C113.2213	Meteorological Technicians
C12.222	**Technical Occupations in Life Sciences**
C121.2221	Biological Technologists and Technicians
C122.2222	Agricultural and Fish Products Inspectors
C123.2223	Forestry Technologists and Technicians
C124.2224	Conservation and Fishery Officers
C125.2225	Landscape and Horticultural Technicians and Specialists
C13.223	**Technical Occupations in Civil, Mechanical and Industrial Engineering**
C131.2231	Civil Engineering Technologists and Technicians
C132.2232	Mechanical Engineering Technologists and Technicians
C133.2233	Industrial Engineering and Manufacturing Technologists and Technicians
C134.2234	Construction Estimators
C14.224	**Technical Occupations in Electronics and Electrical Engineering**
C141.2241	Electrical and Electronics Engineering Technologists and Technicians
C142.2242	Electronic Service Technicians (Household and Business Equipment)
C143.2243	Industrial Instrument Technicians and Mechanics
C144.2244	Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

C15.225	**Technical Occupations in Architecture, Drafting, Surveying and Mapping**
C151.2251	Architectural Technologists and Technicians
C152.2252	Industrial Designers
C153.2253	Drafting Technologists and Technicians
C154.2254	Land Survey Technologists and Technicians
C155.2255	Mapping and Related Technologists and Technicians
C16.226	**Other Technical Inspectors and Regulatory Officers**
C161.2261	Nondestructive Testers and Inspectors
C162.2262	Engineering Inspectors and Regulatory Officers
C163.2263	Inspectors in Public and Environmental Health and Occupational Health and Safety
C164.2264	Construction Inspectors
C17.227	**Transportation Officers and Controllers**
C171.2271	Air Pilots, Flight Engineers and Flying Instructors
C172.2272	Air Traffic Control and Related Occupations
C173.2273	Deck Officers, Water Transport
C174.2274	Engineer Officers, Water Transport
C175.2275	Railway Traffic Controllers and Marine Traffic Regulators
C18.228	**Technical Occupations in Computer and Information Systems**
C181.2281	Computer and Network Operators and Web Technicians
C182.2282	User Support Technicians
C183.2283	Systems Testing Technicians

D HEALTH OCCUPATIONS

D0 PROFESSIONAL OCCUPATIONS IN HEALTH

D01.311	**Physicians, Dentists and Veterinarians**
D011.3111	Specialist Physicians
D012.3112	General Practitioners and Family Physicians
D013.3113	Dentists
D014.3114	Veterinarians
D02.312	**Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals**
D021.3121	Optometrists
D022.3122	Chiropractors
D023.3123	Other Professional Occupations in Health Diagnosing and Treating
D03.313	**Pharmacists, Dietitians and Nutritionists**
D031.3131	Pharmacists
D032.3132	Dietitians and Nutritionists
D04.314	**Therapy and Assessment Professionals**
D041.3141	Audiologists and Speech-Language Pathologists
D042.3142	Physiotherapists
D043.3143	Occupational Therapists
D044.3144	Other Professional Occupations in Therapy and Assessment

D1 NURSE SUPERVISORS AND REGISTERED NURSES

D11.315 Nurse Supervisors and Registered Nurses

D111.3151 Head Nurses and Supervisors

D112.3152 Registered Nurses

D2 TECHNICAL AND RELATED OCCUPATIONS IN HEALTH

D21.321 Medical Technologists and Technicians (Except Dental Health)

D211.3211 Medical Laboratory Technologists and Pathologists' Assistants

D212.3212 Medical Laboratory Technicians

D213.3213 Veterinary and Animal Health Technologists and Technicians

D214.3214 Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists

D215.3215 Medical Radiation Technologists

D216.3216 Medical Sonographers

D217.3217 Cardiology Technologists

D218.3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.

D219.3219 Other Medical Technologists and Technicians (Except Dental Health)

D22.322 Technical Occupations in Dental Health Care

D221.3221 Denturists

D222.3222 Dental Hygienists and Dental Therapists

D223.3223 Dental Technologists, Technicians and Laboratory Bench Workers

D23.323 Other Technical Occupations in Health Care (Except Dental)

D231.3231 Opticians

D232.3232 Midwives and Practitioners of Natural Healing

D233.3233 Licensed Practical Nurses

D234.3234 Ambulance Attendants and Other Paramedical Occupations

D235.3235 Other Technical Occupations in Therapy and Assessment

D3 ASSISTING OCCUPATIONS IN SUPPORT OF HEALTH SERVICES

D31.341 Assisting Occupations in Support of Health Services

D311.3411 Dental Assistants

D312.3413 Nurse Aides, Orderlies and Patient Service Associates

D313.3414 Other Assisting Occupations in Support of Health Services

E OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION

E0 JUDGES, LAWYERS, PSYCHOLOGISTS, SOCIAL WORKERS, MINISTERS OF RELIGION, AND POLICY AND PROGRAM OFFICERS

E01.411 Judges, Lawyers and Quebec Notaries

E011.4111 Judges

E012.4112 Lawyers and Quebec Notaries

E02.415 Psychologists, Social Workers, Counsellors, Clergy and Probation Officers

E021.4151 Psychologists

E022.4152	Social Workers
E023.4153	Family, Marriage and Other Related Counsellors
E024.4154	Ministers of Religion
E025.4155	Probation and Parole Officers and Related Occupations
E03.416	**Policy and Program Officers, Researchers and Consultants**
E031.4161	Natural and Applied Science Policy Researchers, Consultants and Program Officers
E032.4162	Economists and Economic Policy Researchers and Analysts
E033.4163	Business Development Officers and Marketing Researchers and Consultants
E034.4164	Social Policy Researchers, Consultants and Program Officers
E035.4166	Education Policy Researchers, Consultants and Program Officers
E036.4167	Recreation, Sports and Fitness Program Supervisors and Consultants
E037.4168	Program Officers Unique to Government
E038.4169	Other Professional Occupations in Social Science
E039.4165	Health Policy Researchers, Consultants and Program Officers

E1 TEACHERS AND PROFESSORS

E11.412	**University Professors and Assistants**
E111.4121	University Professors
E112.4122	Post-Secondary Teaching and Research Assistants
E12.413	**College and Other Vocational Instructors**
E121.4131	College and Other Vocational Instructors
E13.414	**Secondary and Elementary School Teachers and Educational Counsellors**
E131.4141	Secondary School Teachers
E132.4142	Elementary School and Kindergarten Teachers
E133.4143	Educational Counsellors

E2 PARALEGALS, SOCIAL SERVICES WORKERS AND OCCUPATIONS IN EDUCATION AND RELIGION, N.E.C.

E21.421	**Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.**
E211.4211	Paralegal and Related Occupations
E212.4212	Community and Social Service Workers
E213.4213	Employment Counsellors
E214.4215	Instructors and Teachers of Persons with Disabilities
E215.4216	Other Instructors
E216.4217	Other Religious Occupations
E217.4214	Early Childhood Educators and Assistants

F OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

F0 PROFESSIONAL OCCUPATIONS IN ART AND CULTURE

F01.511	**Librarians, Archivists, Conservators and Curators**
F011.5111	Librarians

F012.5112	Conservators and Curators
F013.5113	Archivists
F02.512	**Writing, Translating and Public Relations Professionals**
F021.5121	Authors and Writers
F022.5122	Editors
F023.5123	Journalists
F024.5124	Professional Occupations in Public Relations and Communications
F025.5125	Translators, Terminologists and Interpreters
F03.513	**Creative and Performing Artists**
F031.5131	Producers, Directors, Choreographers and Related Occupations
F032.5132	Conductors, Composers and Arrangers
F033.5133	Musicians and Singers
F034.5134	Dancers
F035.5135	Actors and Comedians
F036.5136	Painters, Sculptors and Other Visual Artists
F1	**TECHNICAL OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT**
F11.521	**Technical Occupations in Libraries, Archives, Museums and Art Galleries**
F111.5211	Library and Archive Technicians and Assistants
F112.5212	Technical Occupations Related to Museums and Art Galleries
F12.522	**Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts**
F121.5221	Photographers
F122.5222	Film and Video Camera Operators
F123.5223	Graphic Arts Technicians
F124.5224	Broadcast Technicians
F125.5225	Audio and Video Recording Technicians
F126.5226	Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
F127.5227	Support Occupations in Motion Pictures, Broadcasting and the Performing Arts
F13.523	**Announcers and Other Performers**
F131.5231	Announcers and Other Broadcasters
F132.5232	Other Performers
F14.524	**Creative Designers and Craftspersons**
F141.5241	Graphic Designers and Illustrators
F142.5242	Interior Designers
F143.5243	Theatre, Fashion, Exhibit and Other Creative Designers
F144.5244	Artisans and Craftspersons
F145.5245	Patternmakers – Textile, Leather and Fur Products
F15.525	**Athletes, Coaches, Referees and Related Occupations**
F151.5251	Athletes
F152.5252	Coaches
F153.5253	Sports Officials and Referees

F154.5254 Program Leaders and Instructors in Recreation and Sport

G SALES AND SERVICE OCCUPATIONS

G0 SALES AND SERVICE SUPERVISORS

G01.621 Sales and Service Supervisors

G011.6211 Retail Trade Supervisors

G012.6212 Food Service Supervisors

G013.6213 Executive Housekeepers

G014.6214 Dry Cleaning and Laundry Supervisors

G015.6215 Cleaning Supervisors

G016.6216 Other Service Supervisors

G1 WHOLESALE, TECHNICAL, INSURANCE, REAL ESTATE SALES SPECIALISTS, AND RETAIL, WHOLESALE AND GRAIN BUYERS

G11.641 Sales Representatives, Wholesale Trade

G111.6411 Sales Representatives – Wholesale Trade (Non-Technical)

G12.622 Technical Sales Specialists, Wholesale Trade

G121.6221 Technical Sales Specialists – Wholesale Trade

G13.623 Insurance and Real Estate Sales Occupations and Buyers

G131.6231 Insurance Agents and Brokers

G132.6232 Real Estate Agents and Salespersons

G133.6233 Retail and Wholesale Buyers

G134.6234 Grain Elevator Operators

G2 RETAIL SALESPERSONS AND SALES CLERKS

G21.642 Retail Salespersons and Sales Clerks

G211.6421 Retail Salespersons and Sales Clerks

G3 CASHIERS

G31.661 Cashiers

G311.6611 Cashiers

G4 CHEFS AND COOKS

G41.624 Chefs and Cooks

G411.6241 Chefs

G412.6242 Cooks

G5 OCCUPATIONS IN FOOD AND BEVERAGE SERVICE

G51.645 Occupations in Food and Beverage Service

G511.6451 Maîtres d'hôtel and Hosts/Hostesses

G512.6452 Bartenders

G513.6453 Food and Beverage Servers

G6 OCCUPATIONS IN PROTECTIVE SERVICES

G61.626 Police Officers and Fire-fighters

G611.6261 Police Officers (Except Commissioned)

G612.6262 Fire-fighters

G62.646 Other Occupations in Protective Service

G621.6461 Sheriffs and Bailiffs

G622.6462 Correctional Service Officers

G623.6463	By-law Enforcement and Other Regulatory Officers, n.e.c.
G624.6464	Other Ranks, Armed Forces
G625.6465	Other Protective Service Occupations
G63.665	**Security Guards and Related Occupations**
G631.6651	Security Guards and Related Occupations

G7 OCCUPATIONS IN TRAVEL AND ACCOMMODATION INCLUDING ATTENDANTS IN RECREATION AND SPORT

G71.643	**Occupations in Travel and Accommodation**
G711.6431	Travel Counsellors
G712.6432	Pursers and Flight Attendants
G713.6433	Airline Sales and Service Agents
G714.6434	Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)
G715.6435	Hotel Front Desk Clerks
G72.644	**Tour and Recreational Guides and Casino Occupations**
G721.6441	Tour and Travel Guides
G722.6442	Outdoor Sport and Recreational Guides
G723.6443	Casino Occupations
G73.667	**Other Occupations in Travel, Accommodation, Amusement and Recreation**
G731.6671	Operators and Attendants in Amusement, Recreation and Sport
G732.6672	Other Attendants in Accommodation and Travel

G8 CHILDCARE AND HOME SUPPORT WORKERS

G81.647	**Childcare and Home Support Workers**
G811.6471	Visiting Homemakers, Housekeepers and Related Occupations
G812.6472	Elementary and Secondary School Teacher Assistants
G814.6474	Babysitters, Nannies and Parents' Helpers

G9 SALES AND SERVICE OCCUPATIONS N.E.C.

G91.627	**Technical Occupations in Personal Service**
G911.6271	Hairstylists and Barbers
G912.6272	Funeral Directors and Embalmers
G92.648	**Other Occupations in Personal Service**
G921.6481	Image, Social and Other Personal Consultants
G922.6482	Estheticians, Electrologists and Related Occupations
G923.6483	Pet Groomers and Animal Care Workers
G924.6484	Other Personal Service Occupations
G93.666	**Cleaners**
G931.6661	Light Duty Cleaners
G932.6662	Specialized Cleaners
G933.6663	Janitors, Caretakers and Building Superintendents
G94.625	**Butchers and Bakers**
G941.6251	Butchers and Meat Cutters – Retail and Wholesale
G942.6252	Bakers

G96.664	**Food Counter Attendants, Kitchen Helpers and Related Occupations**
G961.6641	Food Counter Attendants, Kitchen Helpers and Related Occupations
G97.662	**Other Sales and Related Occupations**
G971.6621	Service Station Attendants
G972.6622	Grocery Clerks and Store Shelf Stockers
G973.6623	Other Elemental Sales Occupations
G98.668	**Other Elemental Service Occupations**
G981.6681	Dry Cleaning and Laundry Occupations
G982.6682	Ironing, Pressing and Finishing Occupations
G983.6683	Other Elemental Service Occupations

H TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS

H0 CONTRACTORS AND SUPERVISORS IN TRADES AND TRANSPORTATION

H01.721	**Contractors and Supervisors, Trades and Related Workers**
H011.7211	Supervisors, Machinists and Related Occupations
H012.7212	Contractors and Supervisors, Electrical Trades and Telecommunications Occupations
H013.7213	Contractors and Supervisors, Pipefitting Trades
H014.7214	Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades
H015.7215	Contractors and Supervisors, Carpentry Trades
H016.7216	Contractors and Supervisors, Mechanic Trades
H017.7217	Contractors and Supervisors, Heavy Construction Equipment Crews
H018.7218	Supervisors, Printing and Related Occupations
H019.7219	Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers
H02.722	**Supervisors, Railway and Motor Transportation Occupations**
H021.7221	Supervisors, Railway Transport Operations
H022.7222	Supervisors, Motor Transport and Other Ground Transit Operators

H1 CONSTRUCTION TRADES

H11.725	**Plumbers, Pipefitters and Gas Fitters**
H111.7251	Plumbers
H112.7252	Steamfitters, Pipefitters and Sprinkler System Installers
H113.7253	Gas Fitters
H12.727	**Carpenters and Cabinetmakers**
H121.7271	Carpenters
H122.7272	Cabinetmakers
H13.728	**Masonry and Plastering Trades**
H131.7281	Bricklayers
H132.7282	Concrete Finishers
H133.7283	Tilesetters
H134.7284	Plasterers, Drywall Installers and Finishers and Lathers
H14.729	**Other Construction Trades**
H141.7291	Roofers and Shinglers

H142.7292 Glaziers

H143.7293 Insulators

H144.7294 Painters and Decorators

H145.7295 Floor Covering Installers

H2 STATIONARY ENGINEERS, POWER STATION OPERATORS AND ELECTRICAL TRADES AND TELECOMMUNICATIONS OCCUPATIONS

H21.724 Electrical Trades and Telecommunications Occupations

H211.7241 Electricians (Except Industrial and Power System)

H212.7242 Industrial Electricians

H213.7243 Power System Electricians

H214.7244 Electrical Power Line and Cable Workers

H215.7245 Telecommunications Line and Cable Workers

H216.7246 Telecommunications Installation and Repair Workers

H217.7247 Cable Television Service and Maintenance Technicians

H22.735 Stationary Engineers and Power Station and System Operators

H221.7351 Stationary Engineers and Auxiliary Equipment Operators

H222.7352 Power Systems and Power Station Operators

H3 MACHINISTS, METAL FORMING, SHAPING AND ERECTING OCCUPATIONS

H31.723 Machinists and Related Occupations

H311.7231 Machinists and Machining and Tooling Inspectors

H312.7232 Tool and Die Makers

H32.726 Metal Forming, Shaping and Erecting Trades

H321.7261 Sheet Metal Workers

H322.7262 Boilermakers

H323.7263 Structural Metal and Platework Fabricators and Fitters

H324.7264 Ironworkers

H325.7266 Blacksmiths and Die Setters

H326.7265 Welders and Related Machine Operators

H4 MECHANICS

H41.731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)

H411.7311 Construction Millwrights and Industrial Mechanics (Except Textile)

H412.7312 Heavy-Duty Equipment Mechanics

H413.7313 Refrigeration and Air Conditioning Mechanics

H414.7314 Railway Carmen/women

H415.7315 Aircraft Mechanics and Aircraft Inspectors

H416.7316 Machine Fitters

H417.7317 Textile Machinery Mechanics and Repairers

H418.7318 Elevator Constructors and Mechanics

H42.732 Automotive Service Technicians

H421.7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers

H422.7322 Motor Vehicle Body Repairers

H43.733	**Other Mechanics**
H431.7331	Oil and Solid Fuel Heating Mechanics
H432.7332	Electric Appliance Servicers and Repairers
H433.7333	Electrical Mechanics
H434.7334	Motorcycle and Other Related Mechanics
H435.7335	Other Small Engine and Equipment Mechanics

H5 OTHER TRADES N.E.C

H51.734	**Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations**
H511.7341	Upholsterers
H512.7342	Tailors, Dressmakers, Furriers and Milliners
H513.7343	Shoe Repairers and Shoemakers
H514.7344	Jewellers, Watch Repairers and Related Occupations
H52.738	**Printing Press Operators, Commercial Divers and Other Trades and Related Occupations, n.e.c.**
H521.7381	Printing Press Operators
H522.7382	Commercial Divers
H523.7383	Other Trades and Related Occupations
H53.744	**Other Installers, Repairers and Servicers**
H531.7441	Residential and Commercial Installers and Servicers
H532.7442	Waterworks and Gas Maintenance Workers
H533.7443	Automotive Mechanical Installers and Servicers
H534.7444	Pest Controllers and Fumigators
H535.7445	Other Repairers and Servicers

H6 HEAVY EQUIPMENT AND CRANE OPERATORS INCLUDING DRILLERS

H61.742	**Heavy Equipment Operators**
H611.7421	Heavy Equipment Operators (Except Crane)
H612.7422	Public Works Maintenance Equipment Operators
H62.737	**Crane Operators, Drillers and Blasters**
H621.7371	Crane Operators
H622.7372	Drillers and Blasters – Surface Mining, Quarrying and Construction
H623.7373	Water Well Drillers

H7 TRANSPORTATION EQUIPMENT OPERATORS AND RELATED WORKERS, EXCLUDING LABOURERS

H71.741	**Motor Vehicle and Transit Drivers**
H711.7411	Truck Drivers
H712.7412	Bus Drivers and Subway and Other Transit Operators
H713.7413	Taxi and Limousine Drivers and Chauffeurs
H714.7414	Delivery and Courier Service Drivers
H72.736	**Train Crew Operating Occupations**
H721.7361	Railway and Yard Locomotive Engineers
H722.7362	Railway Conductors and Brakemen/women

H73.743	**Other Transport Equipment Operators and Related Workers**
H731.7431	Railway Yard Workers
H732.7432	Railway Track Maintenance Workers
H733.7433	Deck Crew, Water Transport
H734.7434	Engine Room Crew, Water Transport
H735.7435	Lock and Cable Ferry Operators and Related Occupations
H736.7436	Boat Operators
H737.7437	Air Transport Ramp Attendants

H8 TRADES HELPERS, CONSTRUCTION AND TRANSPORTATION LABOURERS AND RELATED OCCUPATIONS

H81.745	**Longshore Workers and Material Handlers**
H811.7451	Longshore Workers
H812.7452	Material Handlers
H82.761	**Trades Helpers and Labourers**
H821.7611	Construction Trades Helpers and Labourers
H822.7612	Other Trades Helpers and Labourers
H83.762	**Public Works and Other Labourers, n.e.c.**
H831.7621	Public Works and Maintenance Labourers
H832.7622	Railway and Motor Transport Labourers

I OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

I0 OCCUPATIONS UNIQUE TO AGRICULTURE EXCLUDING LABOURERS

I01.825	**Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture**
I011.8251	Farmers and Farm Managers
I012.8252	Agricultural and Related Service Contractors and Managers
I013.8253	Farm Supervisors and Specialized Livestock Workers
I014.8254	Nursery and Greenhouse Operators and Managers
I015.8255	Landscaping and Grounds Maintenance Contractors and Managers
I016.8256	Supervisors, Landscape and Horticulture
I017.8257	Aquaculture Operators and Managers
I02.843	**Agriculture and Horticulture Workers**
I021.8431	General Farm Workers
I022.8432	Nursery and Greenhouse Workers

I1 OCCUPATIONS UNIQUE TO FORESTRY OPERATIONS, MINING, OIL AND GAS EXTRACTION, AND FISHING, EXCLUDING LABOURERS

I11.821	**Supervisors, Logging and Forestry**
I111.8211	Supervisors, Logging and Forestry
I12.822	**Supervisors, Mining, Oil and Gas**
I121.8221	Supervisors, Mining and Quarrying
I122.8222	Supervisors, Oil and Gas Drilling and Service

I13.823	**Underground Miners, Oil and Gas Drillers and Related Workers**
I131.8231	Underground Production and Development Miners
I132.8232	Oil and Gas Well Drillers, Servicers, Testers and Related Workers
I14.841	**Mine Service Workers and Operators in Oil and Gas Drilling**
I141.8411	Underground Mine Service and Support Workers
I142.8412	Oil and Gas Well Drilling Workers and Services Operators
I15.824	**Logging Machinery Operators**
I151.8241	Logging Machinery Operators
I16.842	**Logging and Forestry Workers**
I161.8421	Chain-saw and Skidder Operators
I162.8422	Silviculture and Forestry Workers
I17.826	**Fishing Vessel Masters and Skippers and Fishermen/women**
I171.8261	Fishing Masters and Officers
I172.8262	Fishing Vessel Skippers and Fishermen/women
I18.844	**Other Fishing and Trapping Occupations**
I181.8441	Fishing Vessel Deckhands
I182.8442	Trappers and Hunters

I2 PRIMARY PRODUCTION LABOURERS

I21.861	**Primary Production Labourers**
I211.8611	Harvesting Labourers
I212.8612	Landscaping and Grounds Maintenance Labourers
I213.8613	Aquaculture and Marine Harvest Labourers
I214.8614	Mine Labourers
I215.8615	Oil and Gas Drilling, Servicing and Related Labourers
I216.8616	Logging and Forestry Labourers

J OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

J0 SUPERVISORS IN MANUFACTURING

J01.921	**Supervisors, Processing Occupations**
J011.9211	Supervisors, Mineral and Metal Processing
J012.9212	Supervisors, Petroleum, Gas and Chemical Processing and Utilities
J013.9213	Supervisors, Food, Beverage and Tobacco Processing
J014.9214	Supervisors, Plastic and Rubber Products Manufacturing
J015.9215	Supervisors, Forest Products Processing
J016.9216	Supervisors, Textile Processing
J02.922	**Supervisors, Assembly and Fabrication**
J021.9221	Supervisors, Motor Vehicle Assembling
J022.9222	Supervisors, Electronics Manufacturing
J023.9223	Supervisors, Electrical Products Manufacturing
J024.9224	Supervisors, Furniture and Fixtures Manufacturing
J025.9225	Supervisors, Fabric, Fur and Leather Products Manufacturing

J026.9226	Supervisors, Other Mechanical and Metal Products Manufacturing
J027.9227	Supervisors, Other Products Manufacturing and Assembly
J1	**MACHINE OPERATORS IN MANUFACTURING**
J11.923	**Central Control and Process Operators in Manufacturing and Processing**
J111.9231	Central Control and Process Operators, Mineral and Metal Processing
J112.9232	Petroleum, Gas and Chemical Process Operators
J113.9233	Pulping Control Operators
J114.9234	Papermaking and Coating Control Operators
J12.941	**Machine Operators and Related Workers in Metal and Mineral Products Processing**
J121.9411	Machine Operators, Mineral and Metal Processing
J122.9412	Foundry Workers
J123.9413	Glass Forming and Finishing Machine Operators and Glass Cutters
J124.9414	Concrete, Clay and Stone Forming Operators
J125.9415	Inspectors and Testers, Mineral and Metal Processing
J13.942	**Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing**
J131.9421	Chemical Plant Machine Operators
J132.9422	Plastics Processing Machine Operators
J133.9423	Rubber Processing Machine Operators and Related Workers
J134.9424	Water and Waste Plant Operators
J14.943	**Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing**
J141.9431	Sawmill Machine Operators
J142.9432	Pulp Mill Machine Operators
J143.9433	Papermaking and Finishing Machine Operators
J144.9434	Other Wood Processing Machine Operators
J145.9435	Paper Converting Machine Operators
J146.9436	Lumber Graders and Other Wood Processing Inspectors and Graders
J15.944	**Machine Operators and Related Workers in Textile Processing**
J151.9441	Textile Fibre and Yarn Preparation Machine Operators
J152.9442	Weavers, Knitters and Other Fabric-Making Occupations
J153.9443	Textile Dyeing and Finishing Machine Operators
J154.9444	Textile Inspectors, Graders and Samplers
J16.945	**Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing**
J161.9451	Sewing Machine Operators
J162.9452	Fabric, Fur and Leather Cutters
J163.9453	Hide and Pelt Processing Workers
J164.9454	Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

J17.946	**Machine Operators and Related Workers in Food, Beverage and Tobacco Processing**
J171.9461	Process Control and Machine Operators, Food and Beverage Processing
J172.9462	Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
J173.9463	Fish Plant Workers
J174.9464	Tobacco Processing Machine Operators
J175.9465	Testers and Graders, Food and Beverage Processing
J18.947	**Printing Machine Operators and Related Occupations**
J181.9471	Printing Machine Operators
J182.9472	Camera, Platemaking and Other Pre-Press Occupations
J183.9473	Binding and Finishing Machine Operators
J184.9474	Photographic and Film Processors
J19.951	**Machining, Metalworking, Woodworking and Related Machine Operators**
J191.9511	Machining Tool Operators
J192.9512	Forging Machine Operators
J193.9513	Woodworking Machine Operators
J194.9514	Metalworking Machine Operators
J196.9516	Other Metal Products Machine Operators.
J197.9517	Other Products Machine Operators

J2 ASSEMBLERS IN MANUFACTURING

J21.948	**Mechanical, Electrical and Electronics Assemblers**
J211.9481	Aircraft Assemblers and Aircraft Assembly Inspectors
J212.9482	Motor Vehicle Assemblers, Inspectors and Testers
J213.9483	Electronics Assemblers, Fabricators, Inspectors and Testers
J214.9484	Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
J215.9485	Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
J216.9486	Mechanical Assemblers and Inspectors
J217.9487	Machine Operators and Inspectors, Electrical Apparatus Manufacturing
J22.949	**Other Assembly and Related Occupations**
J221.9491	Boat Assemblers and Inspectors
J222.9492	Furniture and Fixture Assemblers and Inspectors
J223.9493	Other Wood Products Assemblers and Inspectors
J224.9494	Furniture Finishers and Refinishers
J225.9495	Plastic Products Assemblers, Finishers and Inspectors
J226.9496	Painters and Coaters – Industrial
J227.9497	Plating, Metal Spraying and Related Operators
J228.9498	Other Assemblers and Inspectors

J3 LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

J31.961	**Labourers in Processing, Manufacturing and Utilities**
J311.9611	Labourers in Mineral and Metal Processing
J312.9612	Labourers in Metal Fabrication
J313.9613	Labourers in Chemical Products Processing and Utilities
J314.9614	Labourers in Wood, Pulp and Paper Processing
J315.9615	Labourers in Rubber and Plastic Products Manufacturing
J316.9616	Labourers in Textile Processing
J317.9617	Labourers in Food, Beverage and Tobacco Processing
J318.9618	Labourers in Fish Processing
J319.9619	Other Labourers in Processing, Manufacturing and Utilities

Human Resources
Development Canada

Developpement des
ressources humaines Canada

NATIONAL OCCUPATIONAL CLASSIFICATION

Index of Titles

2001

Canada

NATIONAL OCCUPATIONAL CLASSIFICATION

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Index of Titles
NOC 2001

The *Index of Titles* for the *National Occupational Classification* (NOC 2001) is an alphabetical listing of approximately 30,000 occupational titles used in the Canadian labour market. Each title is accompanied by the four-digit code of the NOC unit group in which it is classified. The classification structure identifying major, minor and unit groups of the NOC follows this introduction. Descriptions for occupations at the unit group level are included in the separate publication, *National Occupational Classification 2001: Occupational Descriptions*.

Scope of the Index of Titles

The index contains thousands of titles classified within the 520 occupational groups of NOC 2001. With millions in the employed labour force, it is impossible to capture all of the individualized job titles that could potentially exist. While the listing in the index is not meant to be exhaustive, it provides extensive coverage of commonly used and understood titles in the economy as well as the more obscure and specific titles found in many occupational areas. Some of the most commonly used titles in an occupation are listed within each NOC unit group description.

Approximately 20,000 titles included in the index have been carried forward from the original NOC, published in 1992, as they are still currently used in the labour market. Many new titles are contained in the revised NOC 2001. These titles have been collected in ongoing occupational research conducted throughout the decade since the implementation of the first edition.

To assist users, the index includes both formally recognized occupational titles (radiography technologist) and less formal titles that are in common usage (X-ray technician). Some titles represent ***occupations*** (librarian; chef), while other titles refer to ***specializations*** within occupations (music librarian; pastry chef). Still others correspond to a range of jobs (furniture assembler; sawmill machine operator).

Inversions

Occupational titles appear in the index both in natural order (travel agent) and in inverted order (agent, travel). Inverted titles use a comma as a separator in the title string. To facilitate the location of particular generic titles, such as clerk, co-ordinator, director, supervisor, etc., many inversions have been included.

However, when an occupational title is modified to provide more specificity, such as ***criminal*** lawyer, ***tax*** lawyer and ***real estate*** lawyer, and are all classified in the same NOC unit group, the index includes the modified titles in natural order. It also includes the generic title, lawyer, but does not list all the inversions. When the modified titles are classified in different NOC unit groups (chemical engineer, civil engineer and industrial engineer), inversions are included in the index to assist users in finding the appropriate unit group from the range of choices.

Modifiers

Industry, institution or subject matter modifiers are added to many titles. This information is attached to the title following a dash (customer service supervisor – retail; electronics mechanic – avionics) to provide a means of differentiation among titles. The extensions provide further information often to clarify the placement of titles in the classification structure (painter – visual arts; painter – motor vehicle manufacturing). These modifiers should be considered when coding an occupational title.

Military Titles

Titles of military occupations are indicated by adding the modifier ***military*** after a dash (sonar technician – military). In a very few cases where military appears in the title itself (military police officer; military pilot) the modifier is not added.

When a military occupation includes more than one NOC unit group, the title has been given a descriptive modifier in brackets as well as the military modifier, for example, medical officer (general practitioner) – military and medical officer (specialist) – military.

Concordance Between Languages

The terminological research conducted for the translation and adaptation of the titles contained in this revised *Index of Titles* has dealt with a component that was not addressed previously. Concordances for all titles in both official languages have been identified. Two levels of concordance between English and French titles have been established. In some cases there is a unique, one-to-one correspondence between a title in one language and a title in the other language. The other level of concordance identifies correspondence between one title (or several where there are equivalent titles) to many titles in the other language. Although the index is produced as two separate language publications, the bilingual concordance table is available in an electronic format.

Contact Information

For further information about the *National Occupational Classification 2001* and related occupational systems, contact:

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NOC Major, Minor and Unit Group Structure

MANAGEMENT OCCUPATIONS

Major Group 00
SENIOR MANAGEMENT OCCUPATIONS

001 Legislators and Senior Management

0011 Legislators
0012 Senior Government Managers and Officials
0013 Senior Managers – Financial, Communications and Other Business Services
0014 Senior Managers – Health, Education, Social and Community Services and Membership Organizations
0015 Senior Managers – Trade, Broadcasting and Other Services, n.e.c.[*]
0016 Senior Managers – Goods Production, Utilities, Transportation and Construction

Major Group 01-09
MIDDLE AND OTHER MANAGEMENT OCCUPATIONS

011 Administrative Services Managers

0111 Financial Managers
0112 Human Resources Managers
0113 Purchasing Managers
0114 Other Administrative Services Managers

012 Managers in Financial and Business Services

0121 Insurance, Real Estate and Financial Brokerage Managers
0122 Banking, Credit and Other Investment Managers
0123 Other Business Services Managers

013 Managers in Communication (Except Broadcasting)

0131 Telecommunication Carriers Managers
0132 Postal and Courier Services Managers

021 Managers in Engineering, Architecture, Science and Information Systems

0211 Engineering Managers
0212 Architecture and Science Managers
0213 Computer and Information Systems Managers

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[*] n.e.c = not elsewhere classified

031 Managers in Health, Education, Social and Community Services

0311 Managers in Health Care
0312 Administrators – Post-Secondary Education and Vocational Training
0313 School Principals and Administrators of Elementary and Secondary Education
0314 Managers in Social, Community and Correctional Services

041 Managers in Public Administration

0411 Government Managers – Health and Social Policy Development and Program Administration
0412 Government Managers – Economic Analysis, Policy Development and Program Administration
0413 Government Managers – Education Policy Development and Program Administration
0414 Other Managers in Public Administration

051 Managers in Art, Culture, Recreation and Sport

0511 Library, Archive, Museum and Art Gallery Managers
0512 Managers – Publishing, Motion Pictures, Broadcasting and Performing Arts
0513 Recreation and Sports Program and Service Directors

061 Sales, Marketing and Advertising Managers

0611 Sales, Marketing and Advertising Managers

062 Managers in Retail Trade

0621 Retail Trade Managers

063 Managers in Food Service and Accommodation

0631 Restaurant and Food Service Managers
0632 Accommodation Service Managers

064 Managers in Protective Service

0641 Commissioned Police Officers
0642 Fire Chiefs and Senior Firefighting Officers
0643 Commissioned Officers, Armed Forces

065 Managers in Other Services

0651 Other Services Managers

071 Managers in Construction and Transportation

0711 Construction Managers
0712 Residential Home Builders and Renovators
0713 Transportation Managers

072 Facility Operation and Maintenance Managers

0721 Facility Operation and Maintenance Managers

081 Managers in Primary Production (Except Agriculture)

0811 Primary Production Managers (Except Agriculture)

091 Managers in Manufacturing and Utilities

0911 Manufacturing Managers
0912 Utilities Managers

BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS

Major Group 11
PROFESSIONAL OCCUPATIONS IN BUSINESS AND FINANCE

111 Auditors, Accountants and Investment Professionals

1111 Financial Auditors and Accountants
1112 Financial and Investment Analysts
1113 Securities Agents, Investment Dealers and Brokers
1114 Other Financial Officers

112 Human Resources and Business Service Professionals

1121 Specialists in Human Resources
1122 Professional Occupations in Business Services to Management

Major Group 12
SKILLED ADMINISTRATIVE AND BUSINESS OCCUPATIONS

121 Clerical Supervisors

1211 Supervisors, General Office and Administrative Support Clerks
1212 Supervisors, Finance and Insurance Clerks
1213 Supervisors, Library, Correspondence and Related Information Clerks
1214 Supervisors, Mail and Message Distribution Occupations
1215 Supervisors, Recording, Distributing and Scheduling Occupations

122 Administrative and Regulatory Occupations

1221 Administrative Officers
1222 Executive Assistants
1223 Personnel and Recruitment Officers
1224 Property Administrators
1225 Purchasing Agents and Officers
1226 Conference and Event Planners
1227 Court Officers and Justices of the Peace
1228 Immigration, Employment Insurance and Revenue Officers

123 Finance and Insurance Administrative Occupations

1231 Bookkeepers
1232 Loan Officers
1233 Insurance Adjusters and Claims Examiners
1234 Insurance Underwriters
1235 Assessors, Valuators and Appraisers
1236 Customs, Ship and Other Brokers

124 Secretaries, Recorders and Transcriptionists

1241 Secretaries (Except Legal and Medical)
1242 Legal Secretaries
1243 Medical Secretaries
1244 Court Recorders and Medical Transcriptionists

Major Group 14
CLERICAL OCCUPATIONS

141 Clerical Occupations, General Office Skills

1411 General Office Clerks
1413 Records Management and Filing Clerks
1414 Receptionists and Switchboard Operators

142 Office Equipment Operators

1422 Data Entry Clerks
1423 Desktop Publishing Operators and Related Occupations
1424 Telephone Operators

143 Finance and Insurance Clerks

1431 Accounting and Related Clerks
1432 Payroll Clerks
1433 Customer Service Representatives – Financial Services
1434 Banking, Insurance and Other Financial Clerks
1435 Collectors

144 Administrative Support Clerks

1441 Administrative Clerks
1442 Personnel Clerks
1443 Court Clerks

145 Library, Correspondence and Related Information Clerks

1451 Library Clerks
1452 Correspondence, Publication and Related Clerks
1453 Customer Service, Information and Related Clerks
1454 Survey Interviewers and Statistical Clerks

146 Mail and Message Distribution Occupations

1461 Mail, Postal and Related Clerks
1462 Letter Carriers
1463 Couriers, Messengers and Door-to-Door Distributors

147 Recording, Scheduling and Distributing Occupations

1471 Shippers and Receivers
1472 Storekeepers and Parts Clerks
1473 Production Clerks
1474 Purchasing and Inventory Clerks
1475 Dispatchers and Radio Operators
1476 Transportation Route and Crew Schedulers

NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS

Major Group 21
PROFESSIONAL OCCUPATIONS IN NATURAL AND APPLIED SCIENCES

211 Physical Science Professionals

2111 Physicists and Astronomers
2112 Chemists
2113 Geologists, Geochemists and Geophysicists
2114 Meteorologists
2115 Other Professional Occupations in Physical Sciences

212 Life Science Professionals

2121 Biologists and Related Scientists
2122 Forestry Professionals
2123 Agricultural Representatives, Consultants and Specialists

213 Civil, Mechanical, Electrical and Chemical Engineers

2131 Civil Engineers
2132 Mechanical Engineers
2133 Electrical and Electronics Engineers
2134 Chemical Engineers

214 Other Engineers

2141 Industrial and Manufacturing Engineers
2142 Metallurgical and Materials Engineers
2143 Mining Engineers
2144 Geological Engineers
2145 Petroleum Engineers
2146 Aerospace Engineers
2147 Computer Engineers (Except Software Engineers)
2148 Other Professional Engineers, n.e.c.

215 Architects, Urban Planners and Land Surveyors

2151 Architects
2152 Landscape Architects
2153 Urban and Land Use Planners
2154 Land Surveyors

216 Mathematicians, Statisticians and Actuaries

2161 Mathematicians, Statisticians and Actuaries

217 Computer and Information Systems Professionals

2171 Information Systems Analysts and Consultants
2172 Database Analysts and Data Administrators
2173 Software Engineers
2174 Computer Programmers and Interactive Media Developers
2175 Web Designers and Developers

Major Group 22
TECHNICAL OCCUPATIONS RELATED TO NATURAL AND APPLIED SCIENCES

221 Technical Occupations in Physical Sciences

2211 Chemical Technologists and Technicians
2212 Geological and Mineral Technologists and Technicians
2213 Meteorological Technicians

222 Technical Occupations in Life Sciences

2221 Biological Technologists and Technicians
2222 Agricultural and Fish Products Inspectors
2223 Forestry Technologists and Technicians
2224 Conservation and Fishery Officers
2225 Landscape and Horticultural Technicians and Specialists

223 Technical Occupations in Civil, Mechanical and Industrial Engineering

2231 Civil Engineering Technologists and Technicians
2232 Mechanical Engineering Technologists and Technicians
2233 Industrial Engineering and Manufacturing Technologists and Technicians
2234 Construction Estimators

224 Technical Occupations in Electronics and Electrical Engineering

2241 Electrical and Electronics Engineering Technologists and Technicians
2242 Electronic Service Technicians (Household and Business Equipment)
2243 Industrial Instrument Technicians and Mechanics
2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

225 Technical Occupations in Architecture, Drafting, Surveying and Mapping

2251 Architectural Technologists and Technicians
2252 Industrial Designers
2253 Drafting Technologists and Technicians
2254 Land Survey Technologists and Technicians
2255 Mapping and Related Technologists and Technicians

226 Other Technical Inspectors and Regulatory Officers

2261 Nondestructive Testers and Inspectors
2262 Engineering Inspectors and Regulatory Officers
2263 Inspectors in Public and Environmental Health and Occupational Health and Safety
2264 Construction Inspectors

227 Transportation Officers and Controllers

2271 Air Pilots, Flight Engineers and Flying Instructors
2272 Air Traffic Control and Related Occupations
2273 Deck Officers, Water Transport
2274 Engineer Officers, Water Transport
2275 Railway Traffic Controllers and Marine Traffic Regulators

228 Technical Occupations in Computer and Information Systems

2281 Computer and Network Operators and Web Technicians
2282 User Support Technicians
2283 Systems Testing Technicians

HEALTH OCCUPATIONS

Major Group 31
PROFESSIONAL OCCUPATIONS IN HEALTH

311 Physicians, Dentists and Veterinarians

3111 Specialist Physicians
3112 General Practitioners and Family Physicians
3113 Dentists
3114 Veterinarians

312 Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals

3121 Optometrists
3122 Chiropractors
3123 Other Professional Occupations in Health Diagnosing and Treating

313 Pharmacists, Dietitians and Nutritionists

3131 Pharmacists
3132 Dietitians and Nutritionists

314 Therapy and Assessment Professionals

3141 Audiologists and Speech-Language Pathologists
3142 Physiotherapists
3143 Occupational Therapists
3144 Other Professional Occupations in Therapy and Assessment

315 Nurse Supervisors and Registered Nurses

3151 Head Nurses and Supervisors
3152 Registered Nurses

Major Group 32
TECHNICAL AND SKILLED OCCUPATIONS IN HEALTH

321 Medical Technologists and Technicians (Except Dental Health)

3211 Medical Laboratory Technologists and Pathologists' Assistants
3212 Medical Laboratory Technicians
3213 Veterinary and Animal Health Technologists and Technicians
3214 Respiratory Therapists, Clinical Perfusionists and Cardio-Pulmonary Technologists
3215 Medical Radiation Technologists
3216 Medical Sonographers
3217 Cardiology Technologists
3218 Electroencephalographic and Other Diagnostic Technologists, n.e.c.
3219 Other Medical Technologists and Technicians (Except Dental Health)

322 Technical Occupations in Dental Health Care

3221 Denturists
3222 Dental Hygienists and Dental Therapists
3223 Dental Technologists, Technicians and Laboratory Bench Workers

323 Other Technical Occupations in Health Care (Except Dental)

3231 Opticians
3232 Midwives and Practitioners of Natural Healing
3233 Licensed Practical Nurses
3234 Ambulance Attendants and Other Paramedical Occupations
3235 Other Technical Occupations in Therapy and Assessment

Major Group 34
ASSISTING OCCUPATIONS IN SUPPORT OF HEALTH SERVICES

341 Assisting Occupations in Support of Health Services

3411 Dental Assistants
3413 Nurse Aides, Orderlies and Patient Service Associates
3414 Other Assisting Occupations in Support of Health Services

OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION

Major Group 41
PROFESSIONAL OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICES AND RELIGION

411 Judges, Lawyers and Quebec Notaries

4111 Judges
4112 Lawyers and Quebec Notaries

412 University Professors and Assistants

4121 University Professors
4122 Post-Secondary Teaching and Research Assistants

413 College and Other Vocational Instructors

4131 College and Other Vocational Instructors

414 Secondary and Elementary School Teachers and Educational Counsellors

4141 Secondary School Teachers
4142 Elementary School and Kindergarten Teachers
4143 Educational Counsellors

415 Psychologists, Social Workers, Counsellors, Clergy and Probation Officers

4151 Psychologists
4152 Social Workers
4153 Family, Marriage and Other Related Counsellors
4154 Ministers of Religion
4155 Probation and Parole Officers and Related Occupations

416 Policy and Program Officers, Researchers and Consultants

4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers
4162 Economists and Economic Policy Researchers and Analysts
4163 Business Development Officers and Marketing Researchers and Consultants
4164 Social Policy Researchers, Consultants and Program Officers
4165 Health Policy Researchers, Consultants and Program Officers
4166 Education Policy Researchers, Consultants and Program Officers
4167 Recreation, Sports and Fitness Program Supervisors and Consultants
4168 Program Officers Unique to Government
4169 Other Professional Occupations in Social Science, n.e.c.

Major Group 42

PARAPROFESSIONAL OCCUPATIONS IN LAW, SOCIAL SERVICES, EDUCATION AND RELIGION

421 Paralegals, Social Services Workers and Occupations in Education and Religion, n.e.c.

4211 Paralegal and Related Occupations
4212 Community and Social Service Workers
4213 Employment Counsellors
4214 Early Childhood Educators and Assistants
4215 Instructors and Teachers of Persons with Disabilities
4216 Other Instructors
4217 Other Religious Occupations

OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

Major Group 51

PROFESSIONAL OCCUPATIONS IN ART AND CULTURE

511 Librarians, Archivists, Conservators and Curators

5111 Librarians
5112 Conservators and Curators
5113 Archivists

512 Writing, Translating and Public Relations Professionals

5121 Authors and Writers
5122 Editors
5123 Journalists
5124 Professional Occupations in Public Relations and Communications
5125 Translators, Terminologists and Interpreters

513 Creative and Performing Artists

5131 Producers, Directors, Choreographers and Related Occupations
5132 Conductors, Composers and Arrangers
5133 Musicians and Singers
5134 Dancers
5135 Actors and Comedians
5136 Painters, Sculptors and Other Visual Artists

Major Group 52
TECHNICAL AND SKILLED OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT

521 Technical Occupations in Libraries, Archives, Museums and Art Galleries

5211 Library and Archive Technicians and Assistants
5212 Technical Occupations Related to Museums and Art Galleries

522 Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts

5221 Photographers
5222 Film and Video Camera Operators
5223 Graphic Arts Technicians
5224 Broadcast Technicians
5225 Audio and Video Recording Technicians
5226 Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
5227 Support Occupations in Motion Pictures, Broadcasting and the Performing Arts

523 Announcers and Other Performers

5231 Announcers and Other Broadcasters
5232 Other Performers

524 Creative Designers and Craftspersons

5241 Graphic Designers and Illustrators
5242 Interior Designers
5243 Theatre, Fashion, Exhibit and Other Creative Designers
5244 Artisans and Craftspersons
5245 Patternmakers – Textile, Leather and Fur Products

525 Athletes, Coaches, Referees and Related Occupations

5251 Athletes
5252 Coaches
5253 Sports Officials and Referees
5254 Program Leaders and Instructors in Recreation and Sport

Major Group 62
SKILLED SALES AND SERVICE OCCUPATIONS

621 Sales and Service Supervisors

6211 Retail Trade Supervisors
6212 Food Service Supervisors
6213 Executive Housekeepers
6214 Dry Cleaning and Laundry Supervisors
6215 Cleaning Supervisors
6216 Other Service Supervisors

622 Technical Sales Specialists, Wholesale Trade

6221 Technical Sales Specialists – Wholesale Trade

623 Insurance and Real Estate Sales Occupations and Buyers

6231 Insurance Agents and Brokers
6232 Real Estate Agents and Salespersons
6233 Retail and Wholesale Buyers
6234 Grain Elevator Operators

624 Chefs and Cooks

6241 Chefs
6242 Cooks

625 Butchers and Bakers

6251 Butchers and Meat Cutters – Retail and Wholesale
6252 Bakers

626 Police Officers and Firefighters

6261 Police Officers (Except Commissioned)
6262 Firefighters

627 Technical Occupations in Personal Service

6271 Hairstylists and Barbers
6272 Funeral Directors and Embalmers

Major Group 64
INTERMEDIATE SALES AND SERVICE OCCUPATIONS

641 Sales Representatives, Wholesale Trade

6411 Sales Representatives – Wholesale Trade (Non-Technical)

642 Retail Salespersons and Sales Clerks

6421 Retail Salespersons and Sales Clerks

643 Occupations in Travel and Accommodation

6431 Travel Counsellors
6432 Pursers and Flight Attendants
6433 Airline Sales and Service Agents
6434 Ticket Agents, Cargo Service Representatives and Related Clerks (Except Airline)
6435 Hotel Front Desk Clerks

644 Tour and Recreational Guides and Casino Occupations

6441 Tour and Travel Guides
6442 Outdoor Sport and Recreational Guides
6443 Casino Occupations

645 Occupations in Food and Beverage Service

6451 Maîtres d'hôtel and Hosts/Hostesses
6452 Bartenders
6453 Food and Beverage Servers

646 Other Occupations in Protective Service

6461 Sheriffs and Bailiffs
6462 Correctional Service Officers
6463 By-law Enforcement and Other Regulatory Officers, n.e.c.
6464 Occupations Unique to the Armed Forces
6465 Other Protective Service Occupations

647 Childcare and Home Support Workers

6471 Visiting Homemakers, Housekeepers and Related Occupations
6472 Elementary and Secondary School Teacher Assistants
6474 Babysitters, Nannies and Parents' Helpers

648 Other Occupations in Personal Service

6481 Image, Social and Other Personal Consultants
6482 Estheticians, Electrologists and Related Occupations
6483 Pet Groomers and Animal Care Workers
6484 Other Personal Service Occupations

Major Group 66
ELEMENTAL SALES AND SERVICE OCCUPATIONS

661 Cashiers

6611 Cashiers

662 Other Sales and Related Occupations

6621 Service Station Attendants
6622 Grocery Clerks and Store Shelf Stockers
6623 Other Elemental Sales Occupations

664 Food Counter Attendants, Kitchen Helpers and Related Occupations

6641 Food Counter Attendants, Kitchen Helpers and Related Occupations

665 Security Guards and Related Occupations

6651 Security Guards and Related Occupations

666 Cleaners

6661 Light Duty Cleaners
6662 Specialized Cleaners
6663 Janitors, Caretakers and Building Superintendents

667 Other Occupations in Travel, Accommodation, Amusement and Recreation

6671 Operators and Attendants in Amusement, Recreation and Sport
6672 Other Attendants in Accommodation and Travel

668 Other Elemental Service Occupations

6681 Dry Cleaning and Laundry Occupations
6682 Ironing, Pressing and Finishing Occupations
6683 Other Elemental Service Occupations

TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS

Major Group 72-73
TRADES AND SKILLED TRANSPORT AND EQUIPMENT OPERATORS

721 Contractors and Supervisors, Trades and Related Workers

7211 Supervisors, Machinists and Related Occupations
7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations
7213 Contractors and Supervisors, Pipefitting Trades
7214 Contractors and Supervisors, Metal Forming, Shaping and Erecting Trades
7215 Contractors and Supervisors, Carpentry Trades
7216 Contractors and Supervisors, Mechanic Trades
7217 Contractors and Supervisors, Heavy Construction Equipment Crews
7218 Supervisors, Printing and Related Occupations
7219 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers

722 Supervisors, Railway and Motor Transportation Occupations

7221 Supervisors, Railway Transport Operations
7222 Supervisors, Motor Transport and Other Ground Transit Operators

723 Machinists and Related Occupations

7231 Machinists and Machining and Tooling Inspectors
7232 Tool and Die Makers

724 Electrical Trades and Telecommunication Occupations

7241 Electricians (Except Industrial and Power System)
7242 Industrial Electricians
7243 Power System Electricians
7244 Electrical Power Line and Cable Workers
7245 Telecommunications Line and Cable Workers
7246 Telecommunications Installation and Repair Workers
7247 Cable Television Service and Maintenance Technicians

725 Plumbers, Pipefitters and Gas Fitters

7251 Plumbers
7252 Steamfitters, Pipefitters and Sprinkler System Installers
7253 Gas Fitters

726 Metal Forming, Shaping and Erecting Trades

7261 Sheet Metal Workers
7262 Boilermakers
7263 Structural Metal and Platework Fabricators and Fitters
7264 Ironworkers
7265 Welders and Related Machine Operators
7266 Blacksmiths and Die Setters

727 Carpenters and Cabinetmakers

7271 Carpenters
7272 Cabinetmakers

728 Masonry and Plastering Trades

7281 Bricklayers
7282 Concrete Finishers
7283 Tilesetters
7284 Plasterers, Drywall Installers and Finishers and Lathers

729 Other Construction Trades

7291 Roofers and Shinglers
7292 Glaziers
7293 Insulators
7294 Painters and Decorators
7295 Floor Covering Installers

731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)

7311 Construction Millwrights and Industrial Mechanics (Except Textile)
7312 Heavy-Duty Equipment Mechanics
7313 Refrigeration and Air Conditioning Mechanics
7314 Railway Carmen/women
7315 Aircraft Mechanics and Aircraft Inspectors
7316 Machine Fitters
7317 Textile Machinery Mechanics and Repairers
7318 Elevator Constructors and Mechanics

732 Automotive Service Technicians

7321 Automotive Service Technicians, Truck Mechanics and Mechanical Repairers
7322 Motor Vehicle Body Repairers

733 Other Mechanics

7331 Oil and Solid Fuel Heating Mechanics
7332 Electric Appliance Servicers and Repairers
7333 Electrical Mechanics
7334 Motorcycle and Other Related Mechanics
7335 Other Small Engine and Equipment Mechanics

734 Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations

7341 Upholsterers
7342 Tailors, Dressmakers, Furriers and Milliners
7343 Shoe Repairers and Shoemakers
7344 Jewellers, Watch Repairers and Related Occupations

735 Stationary Engineers and Power Station and System Operators

7351 Stationary Engineers and Auxiliary Equipment Operators
7352 Power Systems and Power Station Operators

736 Train Crew Operating Occupations

7361 Railway and Yard Locomotive Engineers
7362 Railway Conductors and Brakemen/women

737 Crane Operators, Drillers and Blasters

7371 Crane Operators
7372 Drillers and Blasters – Surface Mining, Quarrying and Construction
7373 Water Well Drillers

738 Printing Press Operators, Commercial Divers and Other Trades and Related Occupations, n.e.c.

7381 Printing Press Operators
7382 Commercial Divers
7383 Other Trades and Related Occupations

Major Group 74

INTERMEDIATE OCCUPATIONS IN TRANSPORT, EQUIPMENT OPERATION, INSTALLATION AND MAINTENANCE

741 Motor Vehicle and Transit Drivers

7411 Truck Drivers
7412 Bus Drivers and Subway and Other Transit Operators
7413 Taxi and Limousine Drivers and Chauffeurs
7414 Delivery and Courier Service Drivers

742 Heavy Equipment Operators

7421 Heavy Equipment Operators (Except Crane)
7422 Public Works Maintenance Equipment Operators

743 Other Transport Equipment Operators and Related Workers

7431 Railway Yard Workers
7432 Railway Track Maintenance Workers
7433 Deck Crew, Water Transport
7434 Engine Room Crew, Water Transport
7435 Lock and Cable Ferry Operators and Related Occupations
7436 Boat Operators
7437 Air Transport Ramp Attendants

744 Other Installers, Repairers and Servicers

7441 Residential and Commercial Installers and Servicers
7442 Waterworks and Gas Maintenance Workers
7443 Automotive Mechanical Installers and Servicers
7444 Pest Controllers and Fumigators
7445 Other Repairers and Servicers

745 Longshore Workers and Material Handlers

7451 Longshore Workers
7452 Material Handlers

Major Group 76

TRADES HELPERS, CONSTRUCTION LABOURERS AND RELATED OCCUPATIONS

761 Trades Helpers and Labourers

7611 Construction Trades Helpers and Labourers
7612 Other Trades Helpers and Labourers

762 Public Works and Other Labourers, n.e.c.

7621 Public Works and Maintenance Labourers
7622 Railway and Motor Transport Labourers

OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY

Major Group 82
SKILLED OCCUPATIONS IN PRIMARY INDUSTRY

821 Supervisors, Logging and Forestry

8211 Supervisors, Logging and Forestry

822 Supervisors, Mining, Oil and Gas

8221 Supervisors, Mining and Quarrying
8222 Supervisors, Oil and Gas Drilling and Service

823 Underground Miners, Oil and Gas Drillers and Related Workers

8231 Underground Production and Development Miners
8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

824 Logging Machinery Operators

8241 Logging Machinery Operators

825 Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture

8251 Farmers and Farm Managers
8252 Agricultural and Related Service Contractors and Managers
8253 Farm Supervisors and Specialized Livestock Workers
8254 Nursery and Greenhouse Operators and Managers
8255 Landscaping and Grounds Maintenance Contractors and Managers
8256 Supervisors, Landscape and Horticulture
8257 Aquaculture Operators and Managers

826 Fishing Vessel Masters and Skippers and Fishermen/women

8261 Fishing Masters and Officers
8262 Fishing Vessel Skippers and Fishermen/women

Major Group 84
INTERMEDIATE OCCUPATIONS IN PRIMARY INDUSTRY

841 Mine Service Workers and Operators in Oil and Gas Drilling

8411 Underground Mine Service and Support Workers
8412 Oil and Gas Well Drilling Workers and Services Operators

842 Logging and Forestry Workers

8421 Chainsaw and Skidder Operators
8422 Silviculture and Forestry Workers

843 Agriculture and Horticulture Workers

8431 General Farm Workers
8432 Nursery and Greenhouse Workers

844 Other Fishing and Trapping Occupations

8441 Fishing Vessel Deckhands
8442 Trappers and Hunters

Major Group 86
LABOURERS IN PRIMARY INDUSTRY

861 Primary Production Labourers

8611 Harvesting Labourers
8612 Landscaping and Grounds Maintenance Labourers
8613 Aquaculture and Marine Harvest Labourers
8614 Mine Labourers
8615 Oil and Gas Drilling, Servicing and Related Labourers
8616 Logging and Forestry Labourers

OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

Major Group 92
PROCESSING, MANUFACTURING AND UTILITIES SUPERVISORS AND SKILLED OPERATORS

921 Supervisors, Processing Occupations

9211 Supervisors, Mineral and Metal Processing
9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities
9213 Supervisors, Food, Beverage and Tobacco Processing
9214 Supervisors, Plastic and Rubber Products Manufacturing
9215 Supervisors, Forest Products Processing
9216 Supervisors, Textile Processing

922 Supervisors, Assembly and Fabrication

9221 Supervisors, Motor Vehicle Assembling
9222 Supervisors, Electronics Manufacturing
9223 Supervisors, Electrical Products Manufacturing
9224 Supervisors, Furniture and Fixtures Manufacturing
9225 Supervisors, Fabric, Fur and Leather Products Manufacturing
9226 Supervisors, Other Mechanical and Metal Products Manufacturing
9227 Supervisors, Other Products Manufacturing and Assembly

923 Central Control and Process Operators in Manufacturing and Processing

9231 Central Control and Process Operators, Mineral and Metal Processing
9232 Petroleum, Gas and Chemical Process Operators
9233 Pulping Control Operators
9234 Papermaking and Coating Control Operators

Major Group 94-95
PROCESSING AND MANUFACTURING MACHINE OPERATORS AND ASSEMBLERS

941 Machine Operators and Related Workers in Metal and Mineral Products Processing

9411 Machine Operators, Mineral and Metal Processing
9412 Foundry Workers
9413 Glass Forming and Finishing Machine Operators and Glass Cutters
9414 Concrete, Clay and Stone Forming Operators
9415 Inspectors and Testers, Mineral and Metal Processing

942 Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing

9421 Chemical Plant Machine Operators
9422 Plastics Processing Machine Operators
9423 Rubber Processing Machine Operators and Related Workers
9424 Water and Waste Plant Operators

943 Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing

9431 Sawmill Machine Operators
9432 Pulp Mill Machine Operators
9433 Papermaking and Finishing Machine Operators
9434 Other Wood Processing Machine Operators
9435 Paper Converting Machine Operators
9436 Lumber Graders and Other Wood Processing Inspectors and Graders

944 Machine Operators and Related Workers in Textile Processing

9441 Textile Fibre and Yarn Preparation Machine Operators
9442 Weavers, Knitters and Other Fabric-Making Occupations
9443 Textile Dyeing and Finishing Machine Operators
9444 Textile Inspectors, Graders and Samplers

945 Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing

9451 Sewing Machine Operators
9452 Fabric, Fur and Leather Cutters
9453 Hide and Pelt Processing Workers
9454 Inspectors and Testers, Fabric, Fur and Leather Products Manufacturing

946 Machine Operators and Related Workers in Food, Beverage and Tobacco Processing

9461 Process Control and Machine Operators, Food and Beverage Processing
9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
9463 Fish Plant Workers
9464 Tobacco Processing Machine Operators
9465 Testers and Graders, Food and Beverage Processing

947 Printing Machine Operators and Related Occupations

9471 Printing Machine Operators
9472 Camera, Platemaking and Other Pre-Press Occupations
9473 Binding and Finishing Machine Operators
9474 Photographic and Film Processors

948 Mechanical, Electrical and Electronics Assemblers

9481 Aircraft Assemblers and Aircraft Assembly Inspectors
9482 Motor Vehicle Assemblers, Inspectors and Testers
9483 Electronics Assemblers, Fabricators, Inspectors and Testers
9484 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
9485 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
9486 Mechanical Assemblers and Inspectors
9487 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

949 Other Assembly and Related Occupations

9491 Boat Assemblers and Inspectors
9492 Furniture and Fixture Assemblers and Inspectors
9493 Other Wood Products Assemblers and Inspectors
9494 Furniture Finishers and Refinishers
9495 Plastic Products Assemblers, Finishers and Inspectors
9496 Painters and Coaters – Industrial
9497 Plating, Metal Spraying and Related Operators
9498 Other Assemblers and Inspectors

951 Machining, Metalworking, Woodworking and Related Machine Operators

9511 Machining Tool Operators
9512 Forging Machine Operators
9513 Woodworking Machine Operators
9514 Metalworking Machine Operators
9516 Other Metal Products Machine Operators
9517 Other Products Machine Operators

Major Group 96

LABOURERS IN PROCESSING, MANUFACTURING AND UTILITIES

961 Labourers in Processing, Manufacturing and Utilities

9611 Labourers in Mineral and Metal Processing
9612 Labourers in Metal Fabrication
9613 Labourers in Chemical Products Processing and Utilities
9614 Labourers in Wood, Pulp and Paper Processing
9615 Labourers in Rubber and Plastic Products Manufacturing
9616 Labourers in Textile Processing
9617 Labourers in Food, Beverage and Tobacco Processing
9618 Labourers in Fish Processing
9619 Other Labourers in Processing, Manufacturing and Utilities

2D animation artist **5241**
2D animator **5241**
3D animation artist **5241**
3D animator **5241**
3D CNC (computer numerical control) programmer **2233**
911 dispatcher **1475**
911 emergency centre operations officer **1211**

A

A/V (audiovisual) assistant **5227**
abattoir supervisor **9213**
able seaman/woman **7433**
able-bodied seaman/woman **7433**
Aboriginal affairs development officer **4164**
Aboriginal affairs officer **4164**
Aboriginal art carver **5244**
Aboriginal band chief **0011**
Aboriginal band council member **0011**
Aboriginal centre co-ordinator **4212**
Aboriginal centre manager **0314**
Aboriginal craftwork instructor **5244**
Aboriginal employment developer **4213**
Aboriginal employment officer **4213**
Aboriginal employment policy officer **4164**
Aboriginal employment program officer **4164**
Aboriginal employment worker **4213**
Aboriginal issues lobbyist **4164**
Aboriginal land claims liaison officer **4168**
Aboriginal outreach officer – social services **4212**
Aboriginal outreach worker **4212**
Aboriginal school community teacher – secondary school **4141**
Aboriginal school principal **0313**
abrasive and clay products grader **9415**
abrasive belt cutter **9517**
abrasive mixer – stone products **9414**
abrasive products kiln fireman/woman – non-metallic mineral products **9414**
abrasive reclaimer – mineral products processing **9611**
abrasive sheets inspector **9619**
abrasive wheel binder **9517**
abrasive wheel grinder **9414**
abrasive wheel grinder, rubber **9414**
abrasive wheel maker **9414**
abrasive wheel maker, diamond **9414**
abrasive wheel maker, rubber **9414**
abrasive wheel moulder **9414**
abrasive wheel tester **9415**
abrasives furnace preparer – stone products **9414**
absorption operator **9232**
absorption plant operator **9232**
abstractor **4211**
AC (alternating current) and DC (direct current) motors fitter-assembler **9485**
academic adviser **4143**
academic adviser, First Nations studies program **4143**
academic business vice-president **0014**
academic counsellor **4143**
academic skills counsellor **4143**
academic subjects high school teacher **4141**
academic subjects secondary school teacher **4141**
academic subjects teacher – community college, technical or vocational institute **4131**
academic superintendent **0313**
academy of music manager **0651**
access floor installer helper **7611**
access floor specialist carpenter **7271**
access to information and privacy officer **1221**
access to information officer **1221**
accessories installer, automobiles – motor vehicle manufacturing **9482**
accessories overhaul mechanic, aircraft **7315**
accessories overhaul technician, aircraft **7315**
accessories repair service clerk **1473**
accident and sickness clerk – insurance **1434**
accident and sickness underwriter – insurance **1234**
accommodation analyst **1224**
accommodation co-ordinator **1224**
accommodation officer **1224**
accommodation planning officer **1224**
accommodation services manager **0632**
accommodations manager **0632**
accompanist **5133**
accordion repairer **7445**
accordion teacher – private, conservatory or studio lessons **5133**
account audit clerk **1431**
account executive, advertising **1122**
account manager – sales **0611**
account manager, IT (information technology) consulting **2171**
account records clerk – payroll **1432**
account records manager **0114**
account verification clerk **1431**
accountant **1111**
accountant-controller **1111**
accountants supervisor **1111**
accounting and auditing clerk **1431**
accounting and financial control chief **0111**

accounting and financial control director **0111**
accounting assistant **1431**
accounting bookkeeper **1231**
accounting clerk **1431**
accounting clerks supervisor **1212**
accounting controller **1111**
accounting department manager **0111**
accounting director **0111**
accounting firm manager **0123**
accounting firm manager – business services **0123**
accounting firm manager – financial services **0111**
accounting machine operator **1431**
accounting manager **0111**
accounting office manager **0111**
accounting records manager **0114**
accounting section head **1212**
accounting supervisor **1212**
accounting teacher – college or vocational institute **4131**
accounting teacher- secondary school **4141**
accounts clerk – financial sector **1434**
accounts information clerk **1453**
accounts information service clerk **1453**
accounts manager – banking, credit and investment **0122**
accounts manager, commercial mortgages **0122**
accounts payable analyst **1212**
accounts payable and receivable clerk **1431**
accounts payable clerk **1431**
accounts payable supervisor **1212**
accounts receivable clerk **1431**
accounts receivable supervisor **1212**
accounts representative – financial sector **1434**
accounts supervisor **1212**
accreditation officer, health and social services institution **4165**
accredited appraiser **1235**
acetylene cylinder preparer **9613**
acetylene plant attendant **9421**
acetylene torch operator – metal fabrication **9514**
acetylene welder **7265**
acid bottler **9619**
acid conditioning worker – primary metal processing **9611**
acid maker – pulp and paper **9432**
acid mixer operator **9232**
acid plant operator **9232**
acid pumper – chemical processing **9421**
acid tank cleaner **6662**
acid treater – oil field services **8412**
acid truck driver – oil field services **8412**
acid-bottling machine tender **9619**
acidizer, oil field services **8412**
acidulation plant tender **9421**
acoustic emission technician **2261**
acoustic emission tester **2261**
acoustic tile and drywall installer **7284**
acoustic tile installer **7284**
acoustic tile surfacer **9517**
acoustical ceiling installer **7284**
acoustical engineer **2132**
acoustics and vibration engineer **2132**
acoustics engineer **2132**
acoustics physicist **2111**
acreage-quota assignment officer **2123**
acrobat **5232**
acting teacher – private or studio **5135**
activities co-ordinator **3414**
activities leader – activities for older adults **5254**
activity worker **3414**
actor agent **5124**
actor/actress **5135**
actuarial analyst **2161**
actuarial assistant **2161**
actuarial clerk **1434**
actuarial department manager **0212**
actuary **2161**
acupuncture assistant **3414**
acupuncture attendant **3414**
acupuncture, doctor of **3232**
acupuncturist **3232**
acute care co-ordinator – nursing **3151**
acute care specialist **3111**
ad compositor – typesetting **1423**
ad writer **5121**
addiction social worker **4152**
addictions counsellor **4153**
addictions worker **4212**
adding machine repairer **7445**
address forms clerk **1411**
addressing machine operator – mail and postal services **1461**
address-labelling machine tender **1461**
addressograph clerk **1411**
address-plate inserter **1461**
adhesive bandage machine tender **9517**
adhesives engineer **2134**
adjudication officer – employment insurance **1228**
adjudication officer – immigration **1228**
adjudicator – employment insurance **1228**
adjudicator, labour **1121**

adjuster – insurance **1233**
adjuster trainee – insurance **1233**
adjuster, cigarette shell-and-slide packet-making machines **7311**
adjuster, coils – electrical equipment manufacturing **9484**
adjuster, doors – motor vehicle manufacturing **9482**
adjuster, doors and deck lids – motor vehicle manufacturing **9482**
adjuster, filament-winding machine **9483**
adjuster, golf club heads **7445**
adjuster, headlights – motor vehicle manufacturing **9482**
adjuster, knitting machines – textile manufacturing **7317**
adjuster, line-up – motor vehicle manufacturing **9482**
adjuster, piano action **7445**
adjuster, watch balance wheel **9517**
adjuster, watch escapement put-in-beat **9498**
adjustment clerk **1453**
adjustment officer, school **4143**
adjustment programs director – government services **0411**
adjuvant **3414**
administration analyst **1221**
administration and property management services director **0114**
administration officer **1221**
administration services co-ordinator **1221**
administration teacher – college **4131**
administrative analyst **1221**
administrative assistant **1411**
administrative clerk **1441**
administrative clerk – military **1441**
administrative contract clerk **1441**
administrative co-ordinator **1221**
administrative dietitian **3132**
administrative judge **4111**
administrative lawyer **4112**
administrative librarian **0511**
administrative manager **0114**
administrative nutritionist **3132**
administrative officer **1221**
administrative planning officer **1221**
administrative records department manager **0114**
administrative records manager **0114**
administrative secretary **1241**
administrative services chief **0114**
administrative services co-ordinator **1221**
administrative services director **0114**
administrative services manager **0114**
administrative services officer **1221**
administrative services supervisor **1211**
administrative support services manager **0114**
administrative tribunal judge – government services **0411**
administrator assistant, art gallery **0511**
administrator in chief, leisure **0513**
administrator in chief, recreation **0513**
administrator of studio and broadcasting station **0512**
administrator of the court **1227**
administrator, art gallery **0511**
administrator, blood bank **0311**
administrator, board of education **0313**
administrator, Chamber of Commerce **0314**
administrator, child welfare services **0314**
administrator, court **1227**
administrator, data **2172**
administrator, database **2172**
administrator, dental health services **0311**
administrator, education programs **0312**
administrator, estate **1114**
administrator, historic sites **0511**
administrator, hospital **0014**
administrator, House of Commons **0414**
administrator, human resources **0112**
administrator, leisure **0513**
administrator, museum **0511**
administrator, nursing unit **0311**
administrator, pension plans **0111**
administrator, records **0114**
administrator, recreation **0513**
administrator, reserve **1221**
administrator, social programs – government services **0411**
administrator, therapeutic services **0311**
administrator, traffic safety – government services **0411**
administrator, vocational school **0312**
administrator, welfare services – government services **0411**
admissions director – health care **0311**
admissions director – postsecondary education **0312**
admissions officer, post secondary educational institution **1221**
admitting clerk **1414**
adoption project officer **4164**
adult echocardiographer **3216**
adult education consultant **4166**
adult education dean **0312**

adult education program officer **4166**
adult education services director **0413**
adult education teacher, secondary school **4141**
advanced care paramedic **3234**
advanced emergency medical assistant **3234**
advanced life support attendant **3234**
advanced life support co-ordinator **3234**
advanced nurse practitioner **3152**
adventure travel site interpreter **6441**
advertisement delivery person – courier service **1463**
advertising account executive **1122**
advertising account manager **0611**
advertising administrator **0611**
advertising agency broker **6411**
advertising agency president **0013**
advertising agent **6411**
advertising analyst **4163**
advertising art director **5241**
advertising art supervisor **5241**
advertising art teacher – vocational school **4131**
advertising artist **5241**
advertising assistant **1452**
advertising buyer **1225**
advertising campaign organizer **1122**
advertising clerk **1452**
advertising clerks supervisor **1213**
advertising collector **1435**
advertising consultant **1122**
advertising control clerk **1473**
advertising copywriter **5121**
advertising designer **5241**
advertising director **0611**
advertising editor **5122**
advertising illustrator **5241**
advertising item delivery person – courier service **1463**
advertising layout designer **5241**
advertising manager **0611**
advertising space measurer **1452**
advertising space officer **1224**
advertising specialist **1122**
advertising time sales representative **6411**
advertising writer **5121**
adviser for the integration of persons with disabilities **4164**
adviser, academic **4143**
adviser, corporate development planning **1122**
adviser, law and corporate affairs **4112**
adviser, loans **1232**
adviser, public assistance **4164**
adviser, weight loss **6481**
advisory counsel **4112**
advocate, legal **4112**
adzing and boring machine operator **9513**
aerial acrobat – entertainment **5232**
aerial crop duster **2271**
aerial crop dusting service manager **8252**
aerial photograph analyst **2255**
aerial photograph interpreter **2255**
aerial photograph technician **2255**
aerial photographer **5221**
aerial sprayer **2271**
aerial spraying assistant **7612**
aerial spraying lineman/woman **7612**
aerial survey flight supervisor **2271**
aerial survey pilot **2271**
aerial survey technician **2255**
aerial tram operator **7421**
aerobics instructor **5254**
aerodrome supervisor **1215**
aerodynamicist **2111**
aerodynamics engineer **2146**
aero-engine mechanic **7315**
aero-engine technician **7315**
aero-engine technician – military **7315**
aerological observer **2213**
aerological technician **2213**
aeromedical instructor **3219**
aeromedical instructor – military **3219**
aeromedical technician **3219**
aeromedical technician – military **3219**
aeromedicine technician **3219**
aeronautical draftsperson **2253**
aeronautical engineer **2146**
aeronautical technologist **2232**
aerospace engineer **2146**
aerospace engineer – design and development **2146**
aerospace engineer – flight operations **2146**
aerospace engineer – flight support **2146**
aerospace engineer – flight test **2146**
aerospace engineer – mass properties **2146**
aerospace engineer – material stress **2146**
aerospace engineer – materials and processes **2146**
aerospace engineer – military **2146**
aerospace engineer – propulsion systems **2146**
aerospace engineer – systems **2146**
aerospace engineer – systems analysis **2146**
aerospace engineer – weight and balance **2146**
aerospace engineer, structures **2146**
aerospace engineering service head **0211**
aerospace engineering technician **2232**

aerospace engineering technologist **2232**
aerospace reliability specialist **2146**
aerospace research scientist **2111**
aerospace structural engineer **2146**
aerospace systems engineer **2146**
aerospace test engineer **2146**
aesthetician **6482**
affiliated stations relations administrator **5124**
affirmation action advisor **4164**
after-sales service technician – electrical appliances **7332**
agency marketing department manager **0611**
agent ticket and information – airline **6433**
agent, actors **5124**
agent, apartment rental **1224**
agent, athlete **5124**
agent, booking – travel agency **6431**
agent, career **5124**
agent, cargo – airline **6433**
agent, check-in – airline **6433**
agent, commissary – airline **6433**
agent, counter sales – railway **6434**
agent, counter services – airline **6433**
agent, country grain elevator **6234**
agent, customer sales – airline **6433**
agent, customer service – airline **6433**
agent, entertainment **5124**
agent, freight – railway **6434**
agent, load control – airline **6433**
agent, loans **1232**
agent, musicians **5124**
agent, passengers – airline **6433**
agent, passengers – railway **6434**
agent, passengers (except airline) **6434**
agent, performers **5124**
agent, primary grain elevator **6234**
agent, railway express **6434**
agent, real estate **6232**
agent, reservations – airline **6433**
agent, reservations – railway **6434**
agent, right of way **1235**
agent, securities **1113**
agent, ship cargo **6434**
agent, singers **5124**
agent, sports **5124**
agent, station – airline **6433**
agent, station services – airline **6433**
agent, talent **5124**
agent, tickets – airline **6433**
agent, tickets – bus line **6434**
agent, tickets – cruise line **6434**
agent, tickets – transit station **6434**
agent, travel **6431**
agent, travel information **6431**
ager operator – textile manufacturing **9443**
ager tender – textile manufacturing **9443**
agglomerating attendant, iron ore pellets **9411**
aging machine operator – textile manufacturing **9443**
aging machine tender – textile manufacturing **9443**
agricultural advisor **2123**
agricultural association analyst **4161**
agricultural chemist **2112**
agricultural chemistry branch director **0212**
agricultural college teacher **4131**
agricultural consultant **2123**
agricultural economist **4162**
agricultural engineer **2148**
agricultural engineering technician **2231**
agricultural equipment and supplies technical salesperson **6221**
agricultural equipment assembler **9486**
agricultural equipment assembly inspector **9486**
agricultural equipment bench assembler **9486**
agricultural equipment inspector **9486**
agricultural extension supervisor **2123**
agricultural implement gearcase assembler **9486**
agricultural implements inspector **9486**
agricultural issues lobbyist **4161**
agricultural livestock specialist **2123**
agricultural machinery builder **7316**
agricultural machinery fitter **7316**
agricultural policy director – government services **0412**
agricultural products inspector **2222**
agricultural products market development director – government services **0412**
agricultural products market director **0412**
agricultural programs manager – government services **0412**
agricultural representative **2123**
agricultural representatives director **0212**
agricultural representatives regional manager **0212**
agricultural school teacher **4131**
agricultural sciences technician **2221**
agricultural scientist **2121**
agricultural soil and crop specialist **2123**
agricultural specialist **2123**
agricultural technician **2221**
agricultural technologist **2221**
agriculture and food sector development consultant **4163**

agriculture and food sector marketing consultant **4163**
agriculture foreman/woman **8253**
agriculture professor – university **4121**
agriculture research officer – military **2121**
agriculturist **2123**
agri-food sector development consultant **4163**
agri-food sector marketing consultant **4163**
agrochemist **2112**
agrogeologist **2121**
agrologist **2123**
agrology technician **2221**
agrology technologist **2221**
agronomist **2123**
agronomy engineer **2148**
agronomy technician **2221**
agronomy technologist **2221**
agroprocessing engineer **2148**
aide, chiropractic **3414**
aide, day care **4214**
aide, emergency room **3413**
aide, health care **3413**
aide, hospital **3413**
aide, hospital ward **3413**
aide, library **5211**
aide, medical **3413**
aide, medical laboratory **3212**
aide, neuropsychiatric **3413**
aide, nursery – hospital **3413**
aide, nursery school **4214**
aide, occupational therapy **3414**
aide, operating room **3413**
aide, patient care **3413**
aide, pharmacy **3414**
aide, physical therapy **3414**
aide, psychiatric **3413**
aide, remedial education **6472**
aide, school **6472**
aide, special care – nursing **3413**
aide, speech **3235**
aide, speech therapy **3235**
aide, supply, processing and distribution – medical **3414**
aide, surgical **3413**
aide, teacher's **6472**
aileron fitter – aircraft assembly **9481**
air brake hose builder – rubber products manufacturing **9423**
air brake inspector – railway car **7314**
air breaker operator **7611**
air carrier maintenance inspector **2262**
air compressor operator **7351**
air compressor repairer **7445**
air conditioner coil assembler **9484**
air conditioner installer, residential **7441**
air conditioner installer, window **7441**
air conditioner repairer – window unit **7332**
air conditioning and heating mechanic **7313**
air conditioning and refrigeration contractor **7216**
air conditioning and refrigeration mechanic **7313**
air conditioning course teacher – community college **4131**
air conditioning installer, window **7441**
air conditioning mechanic helper **7612**
air conditioning mechanics foreman/woman **7216**
air conditioning system operator **7351**
air conditioning systems draftsperson **2253**
air conditioning unit tester **9484**
air courier guard **6651**
air defence artilleryman/woman – military **6464**
air defence technician – military **6464**
air filter assembler **9498**
air force chaplain – military **4154**
air freight manager **0713**
air gun operator **7611**
air hammer operator – construction **7611**
air hammer operator – metal forging **9512**
air lock tender **7611**
air navigator **2271**
air navigator – military **2271**
air patrol pilot **2271**
air pilot **2271**
air pilots and navigators supervisor **2271**
air pollution field technician **2231**
air quality meteorologist **2114**
air tool operator **7611**
air track drill operator helper **7611**
air traffic control assistant **2272**
air traffic control chief **2272**
air traffic control officer **2272**
air traffic controller (ATC) **2272**
air traffic controller, airport **2272**
air traffic controller, enroute **2272**
air traffic controller, terminal **2272**
air traffic co-ordinator **2272**
air transport inspector **2262**
air transport operating staff supervisor **1215**
air transport operations supervisor **1215**
air transport operations support supervisor **1215**
air transport schedule analyst **1476**
air treatment installer **7441**
air valve repairer, railway rolling stock **7445**
air weapons control officer **0643**
air weapons systems technician – military **6464**

air weapons technician – military **6464**
airbag and tube curer – rubber products manufacturing **9423**
airbag builder – rubber products manufacturing **9423**
airbag extractor – rubber products manufacturing **9615**
airborne data acquisition specialist **2255**
airborne electronic sensor operator – military **6464**
airbrush artist **5223**
airbrush painter **9496**
air-cooled engine assembler **9486**
air-cooled engine mechanic **7335**
aircraft accessories mechanic **7315**
aircraft accessories overhaul mechanic **7315**
aircraft accessories repairer **7315**
aircraft accessories repairman/woman **7315**
aircraft assembler **9481**
aircraft assembly foreman/woman **9226**
aircraft assembly inspection foreman/woman **9226**
aircraft assembly inspector **9481**
aircraft assembly rigger **9481**
aircraft assembly supervisor **9226**
aircraft avionics technician **2244**
aircraft bench assembler **9481**
aircraft body repairer **7315**
aircraft cleaner **7437**
aircraft composite and sheet metal repairer **7315**
aircraft custom upholsterer **7341**
aircraft design engineer **2146**
aircraft electrical equipment inspector and tester **2244**
aircraft electrical mechanic **2244**
aircraft electrical system mechanic **2244**
aircraft electrical technician **2244**
aircraft electrician **2244**
aircraft electronic equipment inspector and tester **2244**
aircraft electronic equipment installer **2244**
aircraft electronic system mechanic **2244**
aircraft engine assemblers foreman/woman **7216**
aircraft engine assembly foreman/woman **7216**
aircraft engine fitter **7316**
aircraft engine fitters foreman/woman **7216**
aircraft engine inspector **7315**
aircraft engine mechanic **7315**
aircraft engine mechanical systems technician **7315**
aircraft engine overhaul foreman/woman **7216**
aircraft engine overhaul inspector **7315**
aircraft engine overhaul inspector, mechanical systems **7315**
aircraft engine overhaul mechanic **7315**
aircraft engine parts machine tool set-up operator **9511**
aircraft engine parts machinist **7231**
aircraft engine repair and overhaul mechanic **7315**
aircraft engine repair foreman/woman **7216**
aircraft engine tester **7315**
aircraft fabrication inspector **9481**
aircraft final assembly inspector **9481**
aircraft fitter-assembler – aircraft assembly **9481**
aircraft flight attendant **6432**
aircraft furnishing technician **7341**
aircraft gas turbine engine technician **7315**
aircraft groomer **7437**
aircraft heat shield maker **9498**
aircraft hydraulic equipment installation foreman/woman **9226**
aircraft hydraulics inspector **7315**
aircraft hydraulics mechanic **7315**
aircraft hydraulics repair shop foreman/woman **7216**
aircraft hydraulics shop technician **7315**
aircraft hydraulics technician **7315**
aircraft hydraulics tester **7315**
aircraft inspector **7315**
aircraft inspector, assemblies and installations **9481**
aircraft inspector, assembly **9481**
aircraft inspector, mechanical systems **7315**
aircraft instrument inspector **2244**
aircraft instrument mechanic **2244**
aircraft instrument mechanic helper **7612**
aircraft instrument technician **2244**
aircraft interior technician **7341**
aircraft jig and template maker **7232**
aircraft jig and tool maker **7232**
aircraft layout man/woman sheet metal **7261**
aircraft machinist **7231**
aircraft maintenance chief **7216**
aircraft maintenance engineer (AME) (except avionics) **7315**
aircraft maintenance engineer (AME) – avionics **2244**
aircraft maintenance engineer (AME) chief **7216**
aircraft maintenance engineer (AME), mechanical systems **7315**
aircraft maintenance engineer (AME), rotorcraft **7315**

aircraft maintenance engineer (AME), structures **7315**
aircraft maintenance engineer (except avionics) **7315**
aircraft maintenance engineers (AME) supervisor **7216**
aircraft maintenance mechanic apprentice **7315**
aircraft maintenance mechanics foreman/woman – aircraft mechanical systems **7216**
aircraft maintenance service supervisor **7216**
aircraft maintenance supervisor – aircraft mechanical systems **7216**
aircraft maintenance supervisor, mechanical systems **7216**
aircraft maintenance technician **7315**
aircraft mechanic **7315**
aircraft mechanic experimental **7315**
aircraft mechanic helper **7612**
aircraft mechanic learner **7315**
aircraft mechanic, engine accessories overhaul **7315**
aircraft mechanic, engine overhaul **7315**
aircraft mechanic, flight tests **7315**
aircraft mechanic, mechanical systems **7315**
aircraft mechanic, power plant **7315**
aircraft mechanical and fuel systems overhaul and repair mechanic **7315**
aircraft mechanical systems inspector **7315**
aircraft mechanical systems maintenance service supervisor **7216**
aircraft mechanical systems maintenance supervisor **7216**
aircraft mechanical systems mechanic **7315**
aircraft mechanical systems mechanics foreman/woman **7216**
aircraft mechanical systems preflight mechanic **7315**
aircraft mechanical systems repair inspector **7315**
aircraft mechanical systems repair shop inspector **7315**
aircraft mechanical systems technician **7315**
aircraft mechanics and inspectors foreman/woman **7216**
aircraft mechanics and inspectors foreman/woman – mechanical systems **7216**
aircraft mechanics and repairers foreman/woman – mechanical systems **7216**
aircraft mechanics foreman/woman **7216**
aircraft mock-up maker **7383**
aircraft model maker **7383**
aircraft nondestructive inspection technician **2261**
aircraft non-destructive inspection technician **2261**
aircraft painter **9496**
aircraft parts assembly repairer – plastic products manufacturing **9495**
aircraft parts etcher **9511**
aircraft parts etching foreman/woman **9226**
aircraft parts fitter – aircraft assembly **9481**
aircraft parts packager **9619**
aircraft parts wrapper **9619**
aircraft patternmaker **7383**
aircraft patternmaker and upholsterer **7341**
aircraft plastic panelling assembler **9495**
aircraft plastic parts trimmer-assembler **9495**
aircraft plumbing and hydraulics mechanic **7315**
aircraft power plant assembler-installer **9481**
aircraft propeller repair foreman/woman **7216**
aircraft propeller systems technician **7315**
aircraft reciprocating engine technician **7315**
aircraft records clerk **1413**
aircraft refueler **7437**
aircraft repair and overhaul inspector **7315**
aircraft repair shop inspector **7315**
aircraft restoration technician – museum **5212**
aircraft rigger – aircraft assembly **9481**
aircraft rigging and controls mechanic – aircraft assembly **9481**
aircraft rigging foreman/woman **9226**
aircraft safety systems mechanic **7315**
aircraft sales representative **6221**
aircraft sealer – aircraft assembly **9481**
aircraft servicing foreman/woman **7216**
aircraft servicing supervisor **7216**
aircraft sheet metal technician **7315**
aircraft skin repairer **7315**
aircraft structural repair technician **7315**
aircraft structural technician **7315**
aircraft structure and surface assembler **9481**
aircraft structure assembler **9481**
aircraft systems inspector **7315**
aircraft technical sales specialist **6221**
aircraft technician, accessories overhaul **7315**
aircraft technician, gas turbine engines **7315**
aircraft technician, mechanical systems **7315**
aircraft technician, propeller systems **7315**
aircraft technician, propulsion **7315**
aircraft tester – aircraft assembly **9481**
aircraft tire tube balancer **9615**
aircraft tire tube builder – rubber products manufacturing **9423**
aircraft upholsterer **7341**
aircraft welder **7265**

airframe assembler – aircraft assembly **9481**
airframe fitter – aircraft assembly **9481**
airframe mechanic **7315**
airframe subassembler **9481**
airframe technician – military **7315**
airframe unit assembler **9481**
airline baggage agent **6433**
airline cargo agent **6433**
airline customer service representative **6433**
airline customer-service instructor **4131**
airline dispatcher **2272**
airline division manager **0713**
airline division superintendent **0713**
airline express manager **0713**
airline fleet operations manager **0713**
airline flight schedule design manager **0713**
airline food assembler **6641**
airline load control supervisor **1215**
airline load planner **6433**
airline manager **0713**
airline passenger agent **6433**
airline pilot **2271**
airline pilots instructor **2271**
airline purser **6432**
airline radio operator **1475**
airline reservation agent **6433**
airline sales and service agent **6433**
airline sales and service agents supervisor **6216**
airline superintendent **0713**
airline test pilot **2271**
airline ticket agent **6433**
airplane interior designer **5242**
airplane pilot **2271**
airport air traffic controller **2272**
airport cleaner **6661**
airport engineer **2131**
airport equipment maintenance repairer **7445**
airport fire department chief **0642**
airport firefighter **6262**
airport janitor **6663**
airport limousine driver **7413**
airport maintenance worker **6663**
airport manager **0721**
airport ramp attendant **7437**
airport road paving foreman/woman **7217**
airport runways road foreman/woman **7217**
airport security guard **6651**
airport services manager **0721**
airport terminal manager **0721**
airship pilot **6442**
air-track drill operator – construction **7372**
airworthiness inspector **2262**
alarm investigator **6465**
alarm signal investigator **6465**
alarm signal specialist **6465**
alarm specialist **6465**
alarm system dispatcher **1475**
alarm system operator **1475**
alarm system sales representative **6411**
alarm system specialist **6465**
alarm system technician **2242**
alarm systems installer **2242**
alcohol addiction counsellor **4153**
alcoholic beverage sales representative – wholesale **6411**
alderman/woman **0011**
algebra teacher – secondary school **4141**
algologist **2121**
aligner – electronic equipment manufacturing **9483**
aligner, archery bow limbs **9498**
aligner-tamper operator – railway **7432**
alignment and brakes technician **7321**
alignment examiner – printing **9472**
alkylation chief operator **9232**
alkylation operator **9232**
alkylation tower tender **9232**
allergist **3111**
allergologist **3111**
alloy control operator – zinc casting **9231**
alloy mixer – primary metal processing **9611**
alloy processor – primary metal processing **9611**
all-terrain vehicle repairer **7334**
all-terrain vehicles inspector **9486**
alpine guide **6442**
alterationist, garments **7342**
alterations dressmaker **7342**
alterations seamstress **7342**
alterations supervisor – clothing manufacturing **9225**
alternate heating energy consultant **6221**
alternating current (AC) and direct current (DC) motors fitter-assembler **9485**
alternative heating energy consultant – wholesale **6221**
alternator tester **9485**
alumina clarifier helper **9611**
alumina clarifier operator **9411**
alumina plant foreman/woman **9211**
alumina recovery helper **9611**
alumina recovery operator **9411**
aluminium siding salesperson – retail **6421**
aluminizing equipment operator – electronic equipment manufacturing **9483**

aluminum awning assembler **9498**
aluminum boat assembler **9491**
aluminum boat leak tester **9491**
aluminum classifier **9411**
aluminum door and window installer **7441**
aluminum electrolytic tank reconditioner **9411**
aluminum electrolytic tank tender **9411**
aluminum oxide controller **9411**
aluminum pourer – primary metal processing **9411**
aluminum powder maker **9411**
aluminum products sales representative – wholesale **6411**
aluminum products salesperson – retail **6421**
aluminum sheet cutter – ductwork **9514**
aluminum sheet cutter – metal fabrication **9514**
aluminum sheet separator **9611**
aluminum sheet trimmer – ductwork **9514**
aluminum siding installer **7441**
aluminum slurry pump tender **9411**
aluminum stretcher-leveller operator **9411**
aluminum window installer **7441**
aluminum-briquetting equipment operator **9411**
aluminum-casting machine operator – primary metal processing **9411**
alum-liquor plant operator **9232**
amalgamation process tender **9411**
amateur athlete **5251**
amateur athletics team coach **5252**
amateur sport manager **0513**
amateur sports team coach **5252**
amateur track and field team coach **5252**
ambassador **0012**
ambulance attendant **3234**
ambulance attendant trainee **3234**
ambulance attendants supervisor **3234**
ambulance dispatcher **1475**
ambulance driver **3234**
ambulance driver-attendant **3234**
ambulance services field supervisor **3234**
ambulance services supervisor **3234**
ambulance services unit chief **3234**
ambulance technician **3234**
ambulatory care nurse **3152**
AME (aircraft maintenance engineer) (except avionics) **7315**
AME (aircraft maintenance engineer) – avionics **2244**
AME (aircraft maintenance engineer) chief **7216**
AME (aircraft maintenance engineer), mechanical systems **7315**
AME (aircraft maintenance engineer), rotorcraft **7315**
AME (aircraft maintenance engineer), structures **7315**
American Sign Language (ASL) interpreter **5125**
ammonia plant operator **9232**
ammunition assembler **9498**
ammunition caster – foundry **9412**
ammunition foreman/woman **1215**
ammunition inspector **9498**
ammunition loading inspector **9498**
ammunition maker **9498**
ammunition manufacturing inspector **9498**
ammunition safety inspector **2262**
ammunition salvage inspector **9498**
ammunition storekeeper **1472**
ammunition storekeeper – military **1472**
ammunition technician – military **1472**
ammunition technicians supervisor – military **1215**
ammunition worker **9498**
ammunition-assembling machine adjuster **7311**
ammunition-loading machine adjuster **7311**
amplification audiologist **3141**
amplifier repairer **2242**
ampoule filler **9619**
ampoule inspector – pharmaceuticals and toiletries manufacturing **9619**
amusement attraction operator **6671**
amusement concession operator **6671**
amusement machine route agent **7414**
amusement park attendant **6671**
amusement ride attendant **6671**
amusement ride operator **6671**
analogue amplifier design engineer **2133**
analysis supervisor – statistics **2161**
analyst – market research **4163**
analyst, agricultural association **4161**
analyst, air transport schedules **1476**
analyst, business – computer systems **2171**
analyst, business management **1122**
analyst, business methods **1122**
analyst, computer **2171**
analyst, computer simulations **2171**
analyst, computer systems **2171**
analyst, credit **1232**
analyst, database **2172**
analyst, economic **4162**
analyst, EDP (electronic data processing) **2172**
analyst, education policies **4166**
analyst, electronic data processing (EDP) systems **2172**

analyst, filing systems **1122**
analyst, fiscal economics **4162**
analyst, fitness **4167**
analyst, fitness policy **4167**
analyst, handwriting **4169**
analyst, industrial and commercial methods **1122**
analyst, informatics security **2171**
analyst, information systems – computer systems **2171**
analyst, information technology (IT) **2171**
analyst, investments **1112**
analyst, job evaluation **1121**
analyst, leisure **4167**
analyst, leisure policy **4167**
analyst, loans **1232**
analyst, management information systems (MIS) **2171**
analyst, manufacturers' association **4163**
analyst, marketing **4163**
analyst, methods and cost **1122**
analyst, methods and procedures **1122**
analyst, mines **2212**
analyst, MIS (management information systems) **2171**
analyst, money market **1112**
analyst, movement – medical **3144**
analyst, occupational – services to management firms **1122**
analyst, occupational supply **4164**
analyst, purchasing contracts **1225**
analyst, records management systems **1122**
analyst, recreation **4167**
analyst, recreation policy **4167**
analyst, securities **1112**
analyst, social policies **4164**
analyst, sports **4167**
analyst, sports policy **4167**
analyst, systems **2171**
analyst, systems technical support **2282**
analyst, time study **1122**
analyst, work study **1122**
analyst-accountant **1111**
analytical biochemist **2112**
analytical chemist **2112**
analytical chemistry technician **2211**
analytical chemistry technologist **2211**
analytical technician, chemical **2211**
analyzer, colour films – photographic processing **9474**
anatomical pathologist **3111**
anatomical pathology technologist **3211**
anatomist **2121**
anatomist, veterinary **3114**
anatomopathologist **3111**
anatomy professor – university **4121**
anchor-applicator operator – railway **7432**
anchorman/woman **5123**
anchorperson, television news **5123**
andragogy specialist **4166**
anesthesia technologist **3214**
anesthesia, chief of **0311**
anesthesiologist **3111**
anesthetic attendant – hospital **3413**
anesthetist **3111**
anesthetist-resuscitator **3111**
angle shear operator – metal fabrication **9514**
animal art painter **5136**
animal art sculptor **5136**
animal attendant **6483**
animal attendant, laboratory **6483**
animal attendant, zoo **6483**
animal attendants supervisor **6483**
animal breeder **8251**
animal care technician **3213**
animal care technologist **3213**
animal care worker – except farm **6483**
animal control inspector **6463**
animal control officer **6463**
animal control supervisor **6463**
animal control trapper **7444**
animal ecologist **2121**
animal eviscerator – meat packing plant **9462**
animal farm foreman/woman **8253**
animal farmer **8251**
animal feed sack filler **9617**
animal geneticist **2121**
animal groomer (except horses) **6483**
animal health care assistant **6483**
animal health inspector **2222**
animal health technician **3213**
animal health technologist **3213**
animal husbandry foreman/woman **8253**
animal nutritionist **2121**
animal operating room attendant **3213**
animal pathologist **3114**
animal primary products inspector **2222**
animal skinner – meat packing plant **9462**
animal sticker – meat packing plant **9462**
animal stunner **9462**
animal taxonomist **2121**
animal trainer (except horses or marine mammals) **6483**
animal wrangler – motion pictures, broadcasting and performing arts **5226**

animated cartoon artist **5241**
animated cartoon artist – visual arts **5241**
animated cartoon colourist **5241**
animated cartoon inker **5223**
animated cartoon painter **5223**
animated cartoon technician **5223**
animated cartoons inker and painter **5223**
animation artist **5241**
animation camera operator **5223**
animation inker **5223**
animation layout designer **5241**
animation painter **5223**
animation programmer **2174**
animator – animated films **5241**
animator, graphic design and illustration **5241**
annealer – glass products manufacturing **9413**
annealer – primary metal processing **9411**
annealer helper – primary metal processing **9611**
annealer, jewellery **9517**
annealing foreman/woman **9211**
annealing foreman/woman – primary metal processing **9211**
announcement deliverer – courier service **1463**
announcement delivery person – courier service **1463**
announcer **5231**
announcer, P.A. (public address) system **5231**
announcer, public address (P.A.) system **5231**
announcer-producer, international service **5231**
annuity representative – investments **1113**
anode adjuster – primary metal processing **9415**
anode caster **9411**
anode caster – primary metal processing **9411**
anode operator **9411**
anode press operator **9411**
anodizer **9497**
anodizing foreman/woman – primary metal processing **9211**
answering service operator **1414**
antenna assembler **9498**
antenna engineer **2133**
antenna installer – electronic equipment **7441**
antenna installer, television **7441**
antenna-tuner inspector – electronic equipment manufacturing **9483**
anthropologist **4169**
anthropology professor – university **4121**
antibiotics fermenter **9232**
antichecking steel bander **9619**
anti-gambling section inspector – police **0641**
antique car restorer, body **7322**
antique dealer **0621**
antique vehicle restorer, body **7322**
antiquer – furniture finishing **9494**
antireflection (AR) coating technician, ophthalmic goods **3414**
anvil-seating press tender **9517**
anvilsmith **7266**
apartment building caretaker **6663**
apartment building concierge **6663**
apartment building maintenance worker **6663**
apartment maintenance man/woman **6663**
apartment rental agent **1224**
apiarist **8251**
apiary worker **8431**
apiculturist **8251**
apparel design teacher – college or vocational institute **4131**
apparel-service and furnishings-service workers supervisor **6214**
appeal judge – employment insurance **1228**
appeal officer **1228**
appeal officer – taxation **1228**
appellate court judge **4111**
apple grower **8251**
apple orchard foreman/woman **8253**
apple picker **8611**
apple producer **8251**
applesauce processor operator **9461**
appliance buyer **6233**
appliance repair clerk **1473**
appliance repair instructor – vocational school **4131**
appliance repair shop foreman/woman **7216**
appliance repair shop supervisor **7216**
appliance repairer apprentice **7332**
appliance repairer, gas – customer service **7253**
appliance salesperson – retail **6421**
appliance service technician **7332**
appliance service technician apprentice **7332**
appliance servicer **7332**
appliance servicing teacher – vocational institute **4131**
appliance store manager **0621**
application architect **2173**
application clerk **1441**
application programmer **2174**
application reviewer – insurance **1434**
application specific integrator circuit (ASIC) design engineer **2147**
application tester **2283**
application testing technician **2283**
applications analyst – computer systems **2171**
applications sales engineer **6221**

applicator, chemicals – lawn care **8612**
applicator, siding **7441**
applied anthropologist **4169**
applied arts subjects vocational teacher **4131**
applied arts teacher – community college **4131**
applied geographer **4169**
applied linguist **4169**
applied mathematician **2161**
applied meteorologist **2114**
applied statistician **2161**
appointment clerk **1414**
appointment secretary **1241**
appraisal engineer **2131**
appraisal forester **2122**
appraisal technician **1235**
appraiser (except customs) **1235**
appraiser, customs **1228**
appraiser, jewellery **7344**
appraiser, telephone equipment **1453**
apprentice aircraft maintenance engineer (AME) **7315**
apprentice aircraft mechanic, mechanical systems **7315**
apprentice aircraft mechanical systems mechanic **7315**
apprentice AME (aircraft maintenance engineer) **7315**
apprentice appliance service technician **7332**
apprentice automotive machinist **7231**
apprentice avionics technician **2244**
apprentice baker – retail **6252**
apprentice boat carpenter **7271**
apprentice bricklayer **7281**
apprentice brickmason **7281**
apprentice butcher – retail or wholesale **6251**
apprentice carman/woman **7314**
apprentice carpenter **7271**
apprentice carpenter-joiner **7271**
apprentice CATV (community antenna television) technician **7247**
apprentice cement finisher **7282**
apprentice communication electrician – switching **7246**
apprentice community antenna television (CATV) technician **7247**
apprentice construction electrician **7241**
apprentice cook **6242**
apprentice dental mechanic **3221**
apprentice dental prosthesis maker **3223**
apprentice dental technician **3223**
apprentice dry cleaner **6681**
apprentice drywall applicator **7284**
apprentice electrician **7241**
apprentice electrician – telecommunications equipment **7246**
apprentice electrician, construction **7241**
apprentice elevator mechanic **7318**
apprentice embalmer **6272**
apprentice fabricator-fitter, structural metal and platework **7263**
apprentice farm equipment mechanic **7312**
apprentice farm machinery mechanic **7312**
apprentice fitter – shipbuilding **7263**
apprentice fitter, sprinkler systems **7252**
apprentice floor covering installer **7295**
apprentice gas fitter **7253**
apprentice glazier **7292**
apprentice heavy equipment operator **7421**
apprentice industrial electrician **7242**
apprentice industrial instrument mechanic **2243**
apprentice industrial mechanic **7311**
apprentice industrial painter and decorator **7294**
apprentice installer and finisher, drywall **7284**
apprentice instrument mechanic **2243**
apprentice insulator **7293**
apprentice ironworker **7264**
apprentice jeweller **7344**
apprentice line maintainer – electric power systems **7244**
apprentice lineman/woman – electric power systems **7244**
apprentice machinist **7231**
apprentice marine electrician **7242**
apprentice marine engineer officer **2274**
apprentice marine repair technician **7383**
apprentice mason **7281**
apprentice master – minor waters **2273**
apprentice mechanic, automotive radiators **7321**
apprentice mechanic, diesel engines **7312**
apprentice mechanic, farm equipment **7312**
apprentice mechanic, farm machinery **7312**
apprentice mechanic, oil burner **7331**
apprentice mechanic, outboard motors **7335**
apprentice mechanic, refrigeration **7313**
apprentice mechanic, small engines **7335**
apprentice mechanic, small equipment **7335**
apprentice mechanic, trucks and transport vehicles **7321**
apprentice metal fabricator **7263**
apprentice metal shipwright **7263**
apprentice metal structure erector **7264**
apprentice millwright **7311**
apprentice miner **8231**
apprentice mobile crane operator **7371**

apprentice motor vehicle mechanic **7321**
apprentice moulder – foundry **9412**
apprentice ocularist **3219**
apprentice operator, mobile crane **7371**
apprentice optician **3231**
apprentice outboard motor mechanic **7335**
apprentice painter – motor vehicle repair **7322**
apprentice painter and decorator **7294**
apprentice painter, motor vehicles **7322**
apprentice pipefitter **7252**
apprentice pipefitter-steamfitter **7252**
apprentice plasterer **7284**
apprentice plumber **7251**
apprentice power dispatcher **7352**
apprentice power dispatcher – electrical power system **7352**
apprentice power engineer **7351**
apprentice power line repairer **7244**
apprentice power system electrician **7243**
apprentice press operator **7381**
apprentice press operator – printing **7381**
apprentice pressman/woman **7381**
apprentice pressman/woman – printing **7381**
apprentice printing press operator **7381**
apprentice recreation vehicle mechanic **7383**
apprentice refrigeration and air conditioning mechanic **7313**
apprentice repairer, truck trailers **7321**
apprentice roofer **7291**
apprentice saw repairer **7383**
apprentice service station attendant **6621**
apprentice sheet metal worker **7261**
apprentice shingle roofer **7291**
apprentice shipfitter **7263**
apprentice ship's plater **7263**
apprentice sign painter **5223**
apprentice small engine mechanic **7335**
apprentice sprinkler system fitter **7252**
apprentice stationary engineer **7351**
apprentice steamfitter **7252**
apprentice steel fabricator **7263**
apprentice structural metal and platework fabricator **7263**
apprentice structural steel and platework fitter **7263**
apprentice structural steel fabricator **7263**
apprentice telephone switchman/woman **7246**
apprentice tilesetter **7283**
apprentice tinsmith **7261**
apprentice tool and die maker **7232**
apprentice water well driller **7373**
apprentice welder **7265**
apprentice, barber **6271**
apprentice, communication electrician – network craft **7246**
apprentice, firefighter **6262**
apprentice, hairdresser **6271**
apprentice, hairstylist **6271**
apprenticeship training director – government services **0411**
apprenticeship training service director – government services **0411**
aquaculture manager **8257**
aquaculture operator **8257**
aquaculture support worker **8613**
aquaculture technician **2221**
aquaculture worker **8613**
aquarist **6483**
aquarium interpreter **5212**
aquatic biologist **2121**
aquatic biology technician **2221**
aquatic program co-ordinator **4167**
AR (antireflection) coating technician, ophthalmic goods **3414**
arbitrager **1113**
arbitrator, human resources **1121**
arbor press tender – electrical equipment manufacturing **9487**
arboriculturist **2225**
arborist **2225**
arc cutter – metal fabrication **9514**
arc welder **7265**
arc welder – pipeline **7265**
arc welder, hand **7265**
arch cushion press operator – plastic manufacturing **9422**
archaeological consultant **4169**
archaeological field worker **4169**
archaeological technician **5212**
archaeologist **4169**
archaeology curator **5112**
archaeology museum curator **5112**
archaeology professor – university **4121**
archbishop **4154**
arch-cushion-skiving machine operator **9423**
archdeacon **4154**
archer **5251**
archery bow finisher **7445**
archery bow limb aligner **9498**
archery bow maker **9498**
archery bow repairer **7445**
archery bow string maker **9498**
architect **2151**
architect, database **2172**

architect, golf course **2152**
architect, landscape **2152**
architect, naval **2148**
architect, residential buildings **2151**
architectural and engineering technologists and technicians supervisor **2231**
architectural assistant **2251**
architectural design technician **2251**
architectural design technologist **2251**
architectural draftsperson **2253**
architectural engineer **2131**
architectural manager **0212**
architectural service manager **0212**
architectural standards specialist **2151**
architectural technician **2251**
architectural technologist **2251**
architectural technology instructor – college or vocational institute **4131**
archival assistant **5211**
archival document manager **0511**
archival management technician **5211**
archive assistant **5211**
archive attendant **5211**
archive technician **5211**
archives chief **0511**
archives clerk **1441**
archives director **0511**
archives manager **0511**
archivist **5113**
archivist, assistant **5113**
archivist, fine arts **5113**
archivist, videos **5113**
area co-ordinator – motor vehicle assembly **9221**
area co-ordinator – motor vehicle manufacturing **9221**
area development officer – government **4163**
area director, social services **0314**
area dispatch chief operator **7352**
area load centre dispatcher **7352**
area manager – banking, credit and investment **0122**
area manager – postal service **0132**
area manager – retail store chain **0621**
area manager, family services **0314**
area manager, property acquisitions **1224**
area manager, railway transport **0713**
area sales manager **0611**
area superintendent – schools **0313**
arena ice patroller **6671**
arena manager **0721**
armature assembler – industrial electrical equipment **9485**
armature bander **9484**
armature coil former – industrial electrical equipment **9485**
armature coil winder – industrial electric equipment **9485**
armature inspector – industrial electrical equipment **9485**
armature insulator – industrial electrical equipment **9485**
armature repairman/woman **7333**
armature tester **9487**
armature winder – industrial electrical equipment **9485**
armature winder repairer **7333**
armature winder, small electric motor **9484**
armed forces chaplain – military **4154**
Armed Forces reserve member **6464**
armour officer **0643**
armoured car driver **6651**
armoured car guard **6651**
armoured fighting vehicle operator – military **6464**
armoured vehicle crewmember – military **6464**
army chaplain – military **4154**
aromatherapist **3232**
arranger **5132**
arranger, music **5132**
arrow assembler **9498**
arsenic recovery operator **9411**
art and photography model **5232**
art co-ordinator – education **4166**
art critic **5123**
art dealer **0621**
art department library clerk **1451**
art director – motion pictures, broadcasting and performing arts **5131**
art editor **5122**
art educator – museum **5124**
art gallery administrator **0511**
art gallery assistant director **0511**
art gallery chief curator **0511**
art gallery conservator **5112**
art gallery co-ordinator **0511**
art gallery curator **5112**
art gallery director **0511**
art gallery manager **0511**
art gallery manager – retail **0621**
art gallery manager assistant **0511**
art gallery preparator **5212**
art gallery registrar **5212**
art instructor **5136**

art instructor (except primary, secondary, postsecondary education) **5136**
art layout designer **5241**
art librarian **5111**
art object curator **5112**
art objects preparator **5212**
art restoration technician **5212**
art sales consultant – retail **6421**
art salesperson **6421**
art school manager **0651**
art teacher – elementary school **4142**
art teacher – secondary school **4141**
art teacher (except primary, secondary, postsecondary education) **5136**
art therapist **3144**
art therapists' supervisor **3144**
art therapy consultant **3144**
art therapy teacher (except education) **3144**
art work assembler **5223**
articling student-law **4112**
artifact conservator **5112**
artificial breeding worker **8431**
artificial eye maker **3219**
artificial flower maker, hand **5244**
artificial flower presser **5244**
artificial ice maker – rink **6671**
artificial insemination service manager **8252**
artificial inseminator **8252**
artificial limb assembler **3219**
artificial limb finisher **3219**
artificial limb maker **3219**
artificial marble setter **7283**
artificial pearl maker **9498**
artificial stone mason **7281**
artificial turf maker **9517**
artillery officer **0643**
artillery soldier – military **6464**
artilleryman/woman – military **6464**
artisan **5244**
artist **5136**
artist agent **5124**
artist, airbrush **5223**
artist, cartoon background **5223**
artist, paste-up **5223**
artist, plastic arts **5136**
artist, storyboard **5241**
artist, tattoo **6482**
artist, visual arts **5136**
artistic agent **5124**
artistic bouquet designer **5244**
artistic director – music **5132**
artistic director, orchestra **5132**
artistic director, performing arts **5131**
artistic floral arranger **5244**
artistic floral bouquet designer **5244**
artistic floral designer **5244**
artistic illustrator **5241**
artistic painter **5136**
artistic printmaker **5136**
artistic rigger **5227**
arts administrator **0511**
arts and crafts instructor **5254**
arts and crafts leader **5254**
arts and crafts leader – sports and recreation **5254**
arts and crafts programs co-ordinator **4167**
arts and crafts teacher – secondary school **4141**
arts and crafts teacher (except education) **5244**
arts and leisure leader **5254**
arts and recreation leader **5254**
asbestos board curer **9414**
asbestos board machine operator **9414**
asbestos board machinery setter **9414**
asbestos classifier **9415**
asbestos drier **9411**
asbestos fibre inspector and tester **9415**
asbestos fibre preparer **7611**
asbestos grader **9415**
asbestos insulator **7293**
asbestos manufacturing foreman/woman **9211**
asbestos mixer tender **9414**
asbestos mould stripper **9611**
asbestos moulder **9611**
asbestos remover **7611**
asbestos rope maker **9441**
asbestos screen tender **9411**
asbestos shingle assembler **9414**
asbestos shingle cutter **9414**
asbestos shingle floor hand **9611**
asbestos shingle inspector **9415**
asbestos shingle maker **9414**
asbestos shingle presser **9414**
asbestos wire finisher **9516**
asbestos worker – construction **7611**
asbestos worker – mineral processing **9611**
asbestosboard sander **9611**
asbestosboard shearer **9611**
ash handler **7452**
Asian studies professor – university **4121**
ASL (American Sign Language) interpreter **5125**
asphalt batch plant operator **7421**
asphalt coater – chemical processing **9421**
asphalt cold patcher **7611**
asphalt engineer **2131**
asphalt heater tender **9421**

asphalt mixer **7611**
asphalt paving foreman/woman **7217**
asphalt paving labour gang foreman/woman **7217**
asphalt plant dryer tender **9421**
asphalt plant labourer – construction **7611**
asphalt plant operator **7421**
asphalt raker **7611**
asphalt roller operator **7421**
asphalt roofer **7291**
asphalt roofer helper **7611**
asphalt roofers foreman/woman **7219**
asphalt roofing contractor **7219**
asphalt roofing foreman/woman **7219**
asphalt roofing material mixer **9421**
asphalt roofing materials inspector **9421**
asphalt roofing slitter operator **9517**
asphalt shingle roofer **7291**
asphalt shingler **7291**
asphalt spreader **7611**
asphalt spreader operator **7421**
asphalt street paver operator **7421**
asphalt worker – road **7611**
asphalt-grooving machine operator **7421**
asphalt-paving machine operator **7421**
asphalt-paving screed operator **7421**
assault pioneer – military **6464**
assayer – mineralogy **2212**
assayer, gold **2212**
assayer, precious metals **2212**
assembler – automobile assembly **9482**
assembler – electronic equipment manufacturing **9483**
assembler air conditioner **9484**
assembler and finisher, cases **9498**
assembler and tester, wire cables **9516**
assembler and wirer, electrical panels **9485**
assembler and wirer, motors and generators **9485**
assembler and wirer, switchgear **9485**
assembler tack welder **7265**
assembler, advertising buttons **9498**
assembler, agricultural implements **9486**
assembler, air conditioner coil **9484**
assembler, air conditioning **9484**
assembler, air filters **9498**
assembler, air-cooled engines **9486**
assembler, aircraft **9481**
assembler, aircraft plastic panelling **9495**
assembler, aircraft structures and surfaces **9481**
assembler, airframes – aircraft assembly **9481**
assembler, aluminum awnings **9498**
assembler, aluminum doors and windows **9498**
assembler, ammunition **9498**
assembler, antennas **9498**
assembler, arrow points **9498**
assembler, arrows **9498**
assembler, art work **5223**
assembler, artificial limbs **3219**
assembler, asbestos shingles **9414**
assembler, atomic fuel bundles **9498**
assembler, automated valves **9498**
assembler, automobile gear **9486**
assembler, automobile hoods – motor vehicle manufacturing **9482**
assembler, automobiles **9482**
assembler, automotive door panelling – plastic products manufacturing **9495**
assembler, automotive engine accessories **9486**
assembler, automotive engines **9486**
assembler, automotive radiator **9486**
assembler, avionics equipment **9483**
assembler, awning frames **9498**
assembler, axles – automobile assembly **9482**
assembler, baby carriages **9498**
assembler, ballast transformers **9484**
assembler, barometers **9498**
assembler, battery chargers **9487**
assembler, bearings **9498**
assembler, bench – wood products manufacturing **9493**
assembler, bicycles **9498**
assembler, blasting caps **9498**
assembler, boats **9491**
assembler, bodies – motor vehicle manufacturing **9482**
assembler, box spring units – furniture manufacturing **9492**
assembler, box springs **9492**
assembler, bracelets **9498**
assembler, brakes – motor vehicle manufacturing **9482**
assembler, brooms **9498**
assembler, brushes and mops **9498**
assembler, buses **9486**
assembler, bushings – small transformer manufacturing **9484**
assembler, cabinet – furniture manufacturing **9492**
assembler, cameras **9498**
assembler, canoes **9491**
assembler, canvas goods **9498**
assembler, car seats **9498**
assembler, carbon brushes **9485**
assembler, carburetors **9486**
assembler, cars **9482**

assembler, cartridges **9498**
assembler, chairs **9492**
assembler, chassis – motor vehicle manufacturing **9482**
assembler, circuit breakers **9484**
assembler, clocks **9498**
assembler, clocks and watches **9498**
assembler, clutches **9486**
assembler, commercial refrigerators **9484**
assembler, commutators **9485**
assembler, compact discs **9484**
assembler, compasses **9498**
assembler, compressed air and gas regulators **9498**
assembler, convertible tops – motor vehicle manufacturing **9482**
assembler, cooler shells – plastic products manufacturing **9495**
assembler, cooling units – electrical equipment manufacturing **9484**
assembler, corncob pipes **9498**
assembler, crankshafts – motor vehicle manufacturing **9482**
assembler, current transformers **9485**
assembler, curtain rods **9498**
assembler, cylinder heads **9486**
assembler, dental instruments **9498**
assembler, desk **9492**
assembler, detonators **9498**
assembler, diesel engines **9486**
assembler, differentials **9486**
assembler, dinghies **9491**
assembler, dishwashers **9484**
assembler, doors – motor vehicle manufacturing **9482**
assembler, drawing instruments **9498**
assembler, dry cell and battery **9487**
assembler, dry cell batteries **9487**
assembler, dry cells **9487**
assembler, dust brushes **9498**
assembler, dust mop **9498**
assembler, earmuffs **9498**
assembler, electric air conditioning units **9484**
assembler, electric baseboard heaters **9484**
assembler, electric clocks **9484**
assembler, electric clothes dryers **9484**
assembler, electric coffee makers **9484**
assembler, electric fans **9484**
assembler, electric furnace **9486**
assembler, electric heaters **9484**
assembler, electric lamps **9484**
assembler, electric lawnmowers **9484**
assembler, electric meters **9484**
assembler, electric refrigerators **9484**
assembler, electric signs **9484**
assembler, electric toasters **9484**
assembler, electrical accessories **9484**
assembler, electrical appliances **9484**
assembler, electrical control panel **9485**
assembler, electrical equipment **9484**
assembler, electrical switches **9484**
assembler, electrical wire groups **9484**
assembler, electronic cash registers **9483**
assembler, electronic equipment – electronic equipment manufacturing **9483**
assembler, electronic keyboard **9483**
assembler, engine generator sets **9484**
assembler, extensible conveyor belt – underground mining **8411**
assembler, eyeglass frames **9498**
assembler, fabric hats **9498**
assembler, farm equipment **9486**
assembler, fibreglass filters **9495**
assembler, filters **9498**
assembler, firefighters' hats **9498**
assembler, fireworks **9498**
assembler, fishing reels **9498**
assembler, fishing rods **9498**
assembler, fixture **9492**
assembler, flares **9498**
assembler, flat dry batteries **9487**
assembler, flat dry cells **9487**
assembler, flexographic printing cylinders **9472**
assembler, fluorescent light fixtures **9484**
assembler, frames – motor vehicle manufacturing **9482**
assembler, fuel filters **9498**
assembler, fuel pumps **9486**
assembler, furniture **9492**
assembler, garden machinery **9486**
assembler, gas furnace **9486**
assembler, gas meters **9498**
assembler, gasoline engines **9486**
assembler, gearbox **9486**
assembler, golf clubs **9498**
assembler, graphic arts **5223**
assembler, hard hats **9498**
assembler, hardware **9498**
assembler, heat sensors **9498**
assembler, heavy current switches **9484**
assembler, heavy-duty capacitors **9484**
assembler, heavy-duty resistors **9484**
assembler, heavy-duty transformer **9485**
assembler, hockey sticks **9493**

assembler, hogsheads – wood products manufacturing **9493**
assembler, hydraulic hoist **9486**
assembler, hydraulic pump **9486**
assembler, hydrometers **9498**
assembler, igniters **9498**
assembler, industrial brakes and AC (alternating current) motors **9485**
assembler, industrial brakes and alternating current (AC) motors **9485**
assembler, industrial storage battery plates **9487**
assembler, instrument clusters – motor vehicle manufacturing **9482**
assembler, instrument panels – automobile assembly **9482**
assembler, interior finishing – automobile assembly **9482**
assembler, interior trim – automobile assembly **9482**
assembler, jewellery **9498**
assembler, jewellery cases **9498**
assembler, jewellery parts **9498**
assembler, knives **9498**
assembler, laminated cores – industrial electrical equipment **9485**
assembler, lampshades **9498**
assembler, large electrical appliances **9484**
assembler, laundry and dry cleaning **6681**
assembler, leaf springs – motor vehicle manufacturing **9482**
assembler, leather products **9498**
assembler, light fixtures **9484**
assembler, light material-handling equipment **9486**
assembler, light trucks – automobile assembly **9482**
assembler, lighting fixtures **9484**
assembler, lint roller brushes **9498**
assembler, locks **9498**
assembler, luggage bindings – plastic products manufacturing **9495**
assembler, mannequins **9498**
assembler, manufactured homes **9493**
assembler, marine craft plastic panelling **9495**
assembler, mattress – furniture manufacturing **9492**
assembler, mechanical pumps **9486**
assembler, metal cabinets **9492**
assembler, metal chairs **9492**
assembler, metal door frames **9498**
assembler, metal products **9498**
assembler, metal tables **9492**
assembler, meters **9498**
assembler, millwork – wood products manufacturing **9493**
assembler, minivans – motor vehicle manufacturing **9482**
assembler, mirror and picture frames **9492**
assembler, mirrors **9498**
assembler, mops **9498**
assembler, motor and generator – electrical equipment manufacturing **9484**
assembler, motor and generator – industrial electrical equipment **9485**
assembler, motor control centres – industrial electrical equipment **9485**
assembler, motor vehicle lighting fixtures **9484**
assembler, motor vehicles – motor vehicle manufacturing **9482**
assembler, motorboats **9491**
assembler, multifocal lenses **9498**
assembler, munitions **9498**
assembler, necklaces **9498**
assembler, neon signs – electrical equipment manufacturing **9484**
assembler, office chairs **9492**
assembler, office machines **9483**
assembler, oil filters **9498**
assembler, optical instruments **9498**
assembler, orthopedic appliances **3219**
assembler, outboard motor – mechanical assembly **9486**
assembler, packing cartons **9435**
assembler, panelboards – industrial electrical equipment **9485**
assembler, pens and pencils **9498**
assembler, photographic equipment **9498**
assembler, piano backs **9498**
assembler, piano cases **9498**
assembler, pianos **9498**
assembler, picture frames – furniture and fixtures manufacturing **9492**
assembler, plastic cases **9495**
assembler, plastic parts **9495**
assembler, plastic products **9495**
assembler, plastic tanks **9495**
assembler, plastic toys **9495**
assembler, plastics **9495**
assembler, Plexiglas **9495**
assembler, portable electrical appliance **9484**
assembler, power lawn mowers **9486**
assembler, power plants – aircraft assembly **9481**
assembler, power snowblowers **9486**
assembler, prefab housing **9493**

assembler, projectors **9498**
assembler, protective earmuffs **9498**
assembler, pyrotechnics **9498**
assembler, quartz lamps **9484**
assembler, railway cars **9486**
assembler, recreational vehicles **9486**
assembler, rotary tillers **9486**
assembler, rotating field coils – industrial electrical equipment **9485**
assembler, rubber goods **9423**
assembler, rubber sponge gaskets **9423**
assembler, sailboats **9491**
assembler, scales **9498**
assembler, scrubber brushes **9498**
assembler, seats – motor vehicle manufacturing **9482**
assembler, sewing machine **9486**
assembler, shells – explosives **9498**
assembler, shovel handles **9498**
assembler, shower doors and panels **9498**
assembler, skylights – plastic products manufacturing **9495**
assembler, small electric motor **9484**
assembler, small electrical appliances **9484**
assembler, small electrical products **9484**
assembler, small marine engines **9486**
assembler, small parts – motor vehicle manufacturing **9482**
assembler, small transformer **9484**
assembler, snowmobiles **9486**
assembler, solenoid valves **9498**
assembler, spark plugs **9484**
assembler, spoked wheels **9498**
assembler, sponge mops **9498**
assembler, sports headgear **9498**
assembler, sports helmets **9498**
assembler, springs – motor vehicle manufacturing **9482**
assembler, storage batteries **9487**
assembler, switchgear and control panel – industrial electrical equipment **9485**
assembler, switchgear panels – industrial electrical equipment **9485**
assembler, switchgear racks – industrial electrical equipment **9485**
assembler, tables **9492**
assembler, telecommunications equipment **9483**
assembler, Thermos bottles **9498**
assembler, thermostat **9484**
assembler, toggle switches – electrical equipment manufacturing **9484**
assembler, toys **9498**
assembler, tractors **9486**
assembler, trailer **9486**
assembler, transformer accessories **9485**
assembler, transformer cores **9485**
assembler, transformer gas detector relays **9485**
assembler, transformer static plate **9484**
assembler, transmissions **9486**
assembler, trophies **9498**
assembler, truck **9486**
assembler, truck trailers **9486**
assembler, twisted-wire brushes **9498**
assembler, vacuum bottles **9498**
assembler, vacuum cleaners **9484**
assembler, vans **9482**
assembler, vending machines **9486**
assembler, Venetian blinds **9498**
assembler, washing machines – electrical equipment manufacturing **9484**
assembler, watches **9498**
assembler, whisks **9498**
assembler, windows and screens **9498**
assembler, wire mesh gates **9516**
assembler, wood products **9493**
assembler, wooden barrel staves **9493**
assembler, wooden boxes **9493**
assembler, wooden bucket staves **9493**
assembler, wooden cases **9493**
assembler, wooden casket frames **9493**
assembler, wooden crates **9493**
assembler, wooden doors **9493**
assembler, wooden prefab housing **9493**
assembler, wooden reels **9493**
assembler, wooden tables **9492**
assembler, wooden tank staves **9493**
assembler, wooden tanks **9493**
assembler, woodenware **9493**
assembler, zipper chains **9498**
assembler, zippers **9498**
assembler-mechanic – motor vehicle manufacturing **9482**
assemblers foreman/woman – rubber and plastic manufacturing **9214**
assemblers lead hand – wood products manufacturing **9493**
assemblers supervisor – fabric, fur and leather products manufacturing **9225**
assemblers supervisor – rubber and plastic products manufacturing **9214**
assembly adjuster, clocks **9498**
assembly and test foreman/woman – electronics manufacturing **9222**

assembly and testing supervisor – electronic equipment manufacturing **9222**
assembly co-ordinator – motor vehicle manufacturing **9221**
assembly co-ordinator, motor vehicles **9221**
assembly fitter **7316**
assembly fitter, aircraft engines **7316**
assembly foreman, automobiles **9221**
assembly foreman/woman – motor vehicle manufacturing **9221**
assembly foreman/woman, agricultural equipment **9226**
assembly foreman/woman, clocks and watches **9227**
assembly foreman/woman, engine accessories (except aircraft) **9226**
assembly foreman/woman, engines (except aircraft) **9226**
assembly foreman/woman, farm implements **9226**
assembly foreman/woman, fibreglass boats **9227**
assembly foreman/woman, helicopters **9226**
assembly foreman/woman, industrial machinery **7216**
assembly foreman/woman, machinery **7216**
assembly foreman/woman, motor vehicles **9221**
assembly foreman/woman, semiconductors **9222**
assembly foreman/woman, tractor-trailers **9226**
assembly inspection foreman/woman, aircraft **9226**
assembly inspector – electronic equipment manufacturing **9483**
assembly inspector – furniture manufacturing **9492**
assembly inspector – motor vehicle manufacturing **9482**
assembly inspector – plastic manufacturing **9495**
assembly inspector, aircraft **9481**
assembly inspector, boats **9491**
assembly inspector, chassis – motor vehicle manufacturing **9482**
assembly inspector, electrical appliances **9484**
assembly inspector, motorboats **9491**
assembly inspector, wooden boats **9491**
assembly laminator, boats **9491**
assembly lead hand – electrical equipment manufacturing **9484**
assembly lead hand, large electrical appliances **9484**
assembly lead hand, small electrical appliances **9484**
assembly line expediter – electrical equipment manufacturing **9484**
assembly line general labourer **9619**
assembly line gluer – wood products manufacturing **9493**
assembly line inspector – electrical equipment manufacturing **9484**
assembly line inspector – plastic manufacturing **9495**
assembly line inspector and tester – electrical equipment manufacturing **9484**
assembly line operator, storage batteries **9487**
assembly line painter **9496**
assembly line painter, automobiles **9496**
assembly line repairer, electrical appliances **9484**
assembly line tire repairer **9423**
assembly line worker, electric heating systems **9484**
assembly machine setter – electrical equipment manufacturing **9487**
assembly machine set-up person – electrical equipment manufacturing **9487**
assembly mechanics foreman/woman **7216**
assembly painter **9496**
assembly press operator **9517**
assembly press set-up operator **9517**
assembly quality upgrader – motor vehicle manufacturing **9482**
assembly repairer, boats **9491**
assembly repairer, dolls **9498**
assembly repairer, plastic products **9495**
assembly repairer, wooden furniture **9492**
assembly repairman/woman, wooden furniture **9492**
assembly section leader, lighting fixtures **9484**
assembly supervisor – electronics equipment manufacturing **9222**
assembly supervisor – motor vehicle manufacturing **9221**
assembly supervisor, engines (except aircraft) **9226**
assembly supervisor, helicopters **9226**
assembly supervisor, mobile homes **9226**
assembly supervisor, motor vehicles **9221**
assembly supervisor, small engines **9226**
assembly supervisor, tractor-trailers **9226**
assembly tester – electronic equipment manufacturing **9483**
assembly worker, autos **9482**
assembly zone supervisor – motor vehicle manufacturing **9221**
assembly, hair dryers **9484**
assessing officer – taxation **1228**
assessing unit head – taxation **1228**

assessment clerk **1431**
assessment clerks supervisor **1212**
assessor (except tax) **1235**
assessor, tax **1228**
assigned public accountants chief **0111**
assignment clerk – telecommunications **1473**
assistant accountant **1212**
assistant accounting manager **0111**
assistant administrator for nursing **0311**
assistant administrator, nursing services **0311**
assistant animator – animated films **5241**
assistant appraiser **1235**
assistant archivist **5113**
assistant art gallery administrator **0511**
assistant art gallery director **0511**
assistant bank accountant **1212**
assistant binder **9473**
assistant bleacher operator – pulp and paper **9432**
assistant bookbinder **9473**
assistant branch manager – banking, credit and investment **0122**
assistant brewer – food and beverage processing **9461**
assistant buyer **6233**
assistant camera operator **5222**
assistant cardiology supervisor **3217**
assistant chaplain – military **4154**
assistant chef **6241**
assistant chief health inspector – government services **0411**
assistant chief inspector – police **0641**
assistant chief statistician – government services **0012**
assistant coating operator – pulp and paper **9433**
assistant computer operator **2281**
assistant consumer credit manager **0122**
assistant controller **1111**
assistant cook **6242**
assistant corporate banking services manager **0122**
assistant corporate counsel **4112**
assistant costume designer **5243**
assistant credit manager **0122**
assistant Crown attorney **4112**
assistant curator **5112**
assistant dean – college or university **0312**
assistant department manager – retail **0621**
assistant deputy minister – government services **0012**
assistant deputy police chief **0641**
assistant deputy registrar – courts **1227**
assistant digester operator **9432**
assistant digester operator – pulp and paper **9432**
assistant director **5131**
assistant director – motion pictures, broadcasting and performing arts **5131**
assistant director of archives **0511**
assistant director of historical park **0511**
assistant director of nursing **0311**
assistant director of nursing services **0311**
assistant director of school services **0413**
assistant director of school services – public administration **0413**
assistant director, art gallery **0511**
assistant director, economic policy analysis – government services **0412**
assistant director, education programs **0413**
assistant director, educational programs support **0413**
assistant director, health programs – government services **0411**
assistant director, international trade policy – government services **0412**
assistant director, language programs **0413**
assistant director, museum **0511**
assistant director, programs evaluation – education **0413**
assistant director, social programs – government services **0411**
assistant director, special education services **0413**
assistant director, urban planning and development – government services **0212**
assistant district school superintendent **0313**
assistant driller **8232**
assistant driller – offshore drilling rig **8232**
assistant driller – oil and gas well drilling **8232**
assistant editor **5122**
assistant engineer – water transport **2274**
assistant executive director – financial, communications and other business services **0013**
assistant executive director – goods production, utilities, transportation and construction **0016**
assistant executive director – government services **0012**
assistant executive director – health, education, social and community services and membership organizations **0014**
assistant executive housekeeper **6213**
assistant financial analyst **1112**
assistant financial institution accountant – financial services **1212**
assistant funeral director **6272**
assistant general agent – railway **0713**

assistant general director – government services **0012**
assistant general solicitor **4112**
assistant grain elevator manager **6234**
assistant grain inspector **2222**
assistant head nurse **3151**
assistant housekeeping manager **6213**
assistant legal advisor **4112**
assistant librarian **5211**
assistant manager – retail **0621**
assistant manager, construction **0711**
assistant manager, consumer credit **0122**
assistant manager, corporate banking services **0122**
assistant manager, credit **0122**
assistant manager, hotel **0632**
assistant manager, operations – banking, credit and investment **0122**
assistant manager, restaurant **0631**
assistant manager, traffic and transportation **0713**
assistant manager, travel agency **0621**
assistant miller – food and beverage processing **9461**
assistant minister – religion **4154**
assistant museum administrator **0511**
assistant museum curator **5112**
assistant museum director **0511**
assistant music librarian **5211**
assistant newspaper make-up man/woman **9472**
assistant nursing services administrator **0311**
assistant offshore drilling rig superintendent **8222**
assistant operations manager – banking, credit and investment **0122**
assistant operator – chemical processing **9232**
assistant operator, printing press **7381**
assistant paramedic **3234**
assistant paymaster **1432**
assistant personnel officer **1223**
assistant platform superintendent **8222**
assistant police commissioner **0641**
assistant postmaster/mistress **1214**
assistant press operator – printing **7381**
assistant press secretary **5124**
assistant pressman/woman – printing **7381**
assistant principal **0313**
assistant professor – university **4121**
assistant professor, botany – university **4121**
assistant professor, history – university **4121**
assistant regional counsel **4112**
assistant regional manager – banking **0122**
assistant registrar – courts **1227**
assistant registrar – museum **5212**
assistant school district superintendent **0313**
assistant shopping mall manager **0721**
assistant sound editor **5225**
assistant superintendent – railway **0713**
assistant superintendent of schools **0313**
assistant superintendent, historical park **0511**
assistant superintendent, offshore drilling rig **8222**
assistant supervisor, cardiology **3217**
assistant toolpusher – offshore drilling rig **8222**
assistant traffic manager **0713**
assistant transmission lineman/woman – electric power systems **7244**
assistant transportation manager **0713**
assistant treasurer – finances **0111**
assistant undersecretary of state **0012**
assistant underwriter – insurance **1234**
assistant waiter/waitress – food and beverage services **6453**
assistant warehouse manager **0721**
assistant, acupuncture **3414**
assistant, air traffic control **2272**
assistant, architectural **2251**
assistant, audiometric **3235**
assistant, audiovisual materials – education **6472**
assistant, autopsies **3414**
assistant, blood donor clinic **3414**
assistant, chiropractic health **3414**
assistant, clinic – medical **3414**
assistant, communication disorders **3235**
assistant, early childhood educator **4214**
assistant, educational resources **6472**
assistant, emergency medical care **3234**
assistant, hearing aid **3235**
assistant, herbal medicine **3414**
assistant, laboratory – applied chemistry **2211**
assistant, library **5211**
assistant, medical laboratory **3212**
assistant, occupational therapist **3414**
assistant, occupational therapy **3414**
assistant, ophthalmic **3235**
assistant, orthopedic **3414**
assistant, pathologist **3211**
assistant, pathology **3211**
assistant, pharmacy **3414**
assistant, phytotherapy **3414**
assistant, secondary school teachers **6472**
assistant, social services **4212**
assistant, special education **6472**
assistant, speech language **3235**
assistant, speech therapy **3235**
assistant, teacher's **6472**

assistive listening device technician **3235**
associate actuary **2161**
associate chief justice **4111**
associate counsel **4112**
associate editor **5122**
associate lawyer **4112**
associate legal advisor **4112**
associate legal counsel **4112**
associate librarian **5111**
associate professor – university **4121**
associate professor, linguistics **4121**
associate registrar **0312**
associate superintendent – schools **0313**
association director **0314**
association executive director **0014**
association manager **0314**
astrologer **6484**
astrologist **6484**
astronomer **2111**
astronomy professor – university **4121**
astrophysicist **2111**
ATC (air traffic controller) **2272**
athlete **5251**
athlete agent **5124**
athletes manager **5124**
athletic boxing trainer **5252**
athletic equipment attendant **6671**
athletic equipment custodian **6671**
athletic facility manager **0721**
athletic therapist **3144**
athletic trainer – therapy **3144**
athletics coach **5252**
athletics instructor **5254**
athletics judge **5253**
athletics team coach **5252**
ATM (automatic teller machine) clerk **1434**
ATM (automatic teller machine) guard **6651**
atmospheric chemist **2112**
atmospheric physicist **2114**
atomic fuel bundle assembler **9498**
atomizer cap machine tender **9495**
atomizer operator – primary metal and mineral products processing **9611**
attaché **4168**
attacher, heels **9517**
attendance checker **6671**
attendance records supervisor **1211**
attendant for persons with a visual impairment – home care **6471**
attendant for persons with disabilities – home care **6471**
attendant, advanced life support **3234**
attendant, ambulance **3234**
attendant, amusement park **6671**
attendant, amusement ride **6671**
attendant, animal **6483**
attendant, animal operating room **3213**
attendant, archive **5211**
attendant, athletic equipment **6671**
attendant, bar **6452**
attendant, beauty salon **6683**
attendant, bicycle rental **6671**
attendant, billiard parlour **6671**
attendant, bingo hall **6671**
attendant, blood sampling **3414**
attendant, boat rental **6671**
attendant, bowling alley **6671**
attendant, bungee jump **6671**
attendant, cafeteria-buffet **6641**
attendant, campground **6671**
attendant, car **6683**
attendant, checkroom **6683**
attendant, child care – elementary school **6472**
attendant, chip bin – wood processing **9614**
attendant, clubhouse **6671**
attendant, commissary – air transport **6432**
attendant, drive-in theatre **6671**
attendant, driving range **6671**
attendant, ferry terminal **7435**
attendant, filtering – primary metal and mineral products processing **9611**
attendant, first aid – paramedical **3234**
attendant, flight **6432**
attendant, food service counter **6641**
attendant, fracture room **3414**
attendant, funeral home **6683**
attendant, fur storage **6683**
attendant, garage **6683**
attendant, gas bar (except self-service) **6621**
attendant, gate – security **6651**
attendant, go-cart ride **6671**
attendant, go-cart track **6671**
attendant, golf range **6671**
attendant, hospital **3413**
attendant, hotel guest services **6672**
attendant, ice rink **6671**
attendant, infant transport **3234**
attendant, J-bar **6671**
attendant, laundromat **6683**
attendant, laundry **6681**
attendant, leisure **6671**
attendant, leisure and sports **6671**
attendant, leisure facility **6671**
attendant, livestock yard **8431**

attendant, lobster pound **8613**
attendant, locker room **6683**
attendant, locomotives – railway yard **7431**
attendant, marina **6621**
attendant, mini-golf **6671**
attendant, morgue **3414**
attendant, nursing **3413**
attendant, nursing home **3413**
attendant, park **6671**
attendant, parking lot **6683**
attendant, personal care – medical **3413**
attendant, pet shop **6483**
attendant, physiotherapy **3414**
attendant, plaster room **3414**
attendant, pool parlour **6671**
attendant, post-mortem **3414**
attendant, recreation **6671**
attendant, recreation and sports **6671**
attendant, recreation park **6671**
attendant, recreational camp **6671**
attendant, recreational facility **6671**
attendant, ride **6671**
attendant, rink **6671**
attendant, rope tow **6671**
attendant, sauna room **6683**
attendant, service station **6621**
attendant, ski lift **6671**
attendant, ski tow **6671**
attendant, sleeping car **6672**
attendant, snowmaking facility **6671**
attendant, special care facility **3413**
attendant, sport **6671**
attendant, sports and leisure **6671**
attendant, sports and recreation **6671**
attendant, sports centre **6671**
attendant, sports equipment **6671**
attendant, sports facility **6671**
attendant, steam room **6683**
attendant, stockyard **8431**
attendant, suntan salon **6683**
attendant, suntan studio **6683**
attendant, take-out – fast food **6641**
attendant, T-bar **6671**
attendant, tennis court **6671**
attendant, theatre **6683**
attendant, toll booth **6683**
attendant, tourist booth **1453**
attendant, tourist camp **6671**
attendant, tourist information office **1453**
attendant, trailer campsite **6671**
attendant, trailer park **6671**
attendant, turnstile **6683**
attendant, used building materials yard **7452**
attendant, veterinary **6483**
attendant, waterslide **6671**
attorney **4112**
attorney general **0011**
attorney-at-law **4112**
attorney's assistant chief agent **4112**
au pair **6474**
auction clerk **1441**
auctioneer **6411**
audio amplifier repairer – production **2241**
audio engineer – electricity and electronics **2133**
audio engineer – recording studio **5225**
audio equipment consultant – retail **6421**
audio equipment salesperson – retail **6421**
audio equipment store manager **0621**
audio operator **5225**
audio operator assistant **5225**
audio recording studio operator **5225**
audio stereo technician **2242**
audio technician **5225**
audiological technician **3235**
audiologist **3141**
audiologist, research **3141**
audiology and speech language pathology, chief of **0311**
audiology and speech language pathology, director of **0311**
audiology clinician **3141**
audiology specialist **3141**
audiology technician **3235**
audiometric aide **3235**
audiometric assistant **3235**
audiometric technician **3235**
audiometric technician – public health **3235**
audiometrician **3235**
audiometrist **3235**
audiometrist aide **3235**
audioprosthetist **3235**
audioprosthetist assistant **3235**
audio-video repair technician **2242**
audio-video service technician **2242**
audiovisual (A/V) assistant **5227**
audiovisual (A/V) assistant – motion pictures and broadcasting **5227**
audiovisual (AV) assistant – education **6472**
audiovisual (AV) equipment installer and repairer **2242**
audiovisual (AV) equipment repair supervisor **2242**
audiovisual (AV) materials assistant – education **6472**

audiovisual (AV) producer **5131**
audiovisual (AV) technician **5225**
audit and compliance director **0111**
audit clerk **1431**
audit firm manager **0123**
audit reviewer – taxation **1228**
audit unit head – taxation **1111**
auditing clerk **1431**
auditing department manager **0111**
auditing firm manager **0123**
auditor – finance **1111**
auditor, systems **2171**
auditor-CA (chartered accountant) **1111**
auditor-chartered accountant (CA) **1111**
auditors supervisor **1111**
auger machine operator, drain tiles – clay products **9414**
auriculotherapist **3232**
author **5121**
author-composer-performer **5132**
authorization clerk **1441**
author's agent **5124**
auto assembly worker **9482**
auto body solderer **7265**
auto care worker **6662**
auto dealership manager **0621**
auto detailer **6662**
auto glass installer **7322**
auto glass repair shop manager **0621**
auto parts assembler **9482**
auto parts clerk – retail **1472**
auto parts machine shop inspector **7231**
auto rustproofing shop manager **0621**
autobody mechanic **7322**
autobody repairer **7322**
autobody technician **7322**
autobody technician – collision **7322**
autobody technician – refinishing **7322**
autobody worker **7322**
autoclave operator – chemical processing **9421**
autoclave tender – textile manufacturing **9443**
auto-driving instructor **4216**
automated letterer-engraver **9472**
automated line assembler, clock and timer movements **9498**
automated machine tool set-up operator **9511**
automated sphere-polishing machine operator **9517**
automated storage and retrieval system operator **7452**
automated substation operator – electrical power system **7352**
automated welding machine operator – flash butt process **7265**
automatic anchor-applicator operator – railway **7432**
automatic bolt machine operator **9516**
automatic carton-making machine operator – paper converting **9435**
automatic casting machine operator – foundry **9412**
automatic coil machine operator **9516**
automatic coil winder – electrical equipment manufacturing **9487**
automatic coil winder operator – electrical equipment manufacturing **9484**
automatic coiling machine operator – metal products manufacturing **9516**
automatic component-assembly-machine operator – electronic equipment manufacturing **9483**
automatic cut-off operator – metal fabrication **9514**
automatic cut-off saw operator – metal products manufacturing **9514**
automatic door system installer **7441**
automatic door system installer and servicer **7441**
automatic door system servicer **7441**
automatic embroidery machine tender **9442**
automatic garage door installer **7441**
automatic glass-cutting table operator **9413**
automatic jigger man/woman – clay products **9414**
automatic jigger operator – clay products **9414**
automatic knitting machine pattern setter **7317**
automatic lathe operator – clock **9517**
automatic machine polisher – metal products manufacturing **9612**
automatic machine polisher, metal **9516**
automatic moulding machine operator – foundry **9412**
automatic nailing machine operator – woodworking **9513**
automatic paint-sprayer operator **9496**
automatic pallet equipment operator **7452**
automatic paper-cutting machine operator – paper converting **9435**
automatic quiller tender – textile manufacturing **9441**
automatic scrap washer operator **9611**
automatic screw machine operator **9511**
automatic sealing gun operator – glass **9413**
automatic sewing machine operator **9451**
automatic shaper operator – woodworking **9513**
automatic stocking loom tender **9442**

automatic teller machine (ATM) clerk **1434**
automatic teller machine (ATM) guard **6651**
automatic teller machine (atm) servicer **2242**
automatic transfer machine operator – metal machining **9511**
automatic transmission mechanic – motor vehicle **7321**
automatic transmission technician – motor vehicles **7321**
automatic typewriter operator **1411**
automatic veneer clipper tender – wood processing **9434**
automatic welding machine operator **7265**
automatic wire-wrapping machine tender – electronic equipment manufacturing **9483**
automation librarian **5111**
automation technologist **2232**
automobile accessories installer **9482**
automobile accessories installer and repairer **9482**
automobile accessories salesperson – retail **6421**
automobile and home insurance consultant **1234**
automobile appraiser **1235**
automobile assembler **9482**
automobile assembly foreman/woman **9221**
automobile assembly line painter **9496**
automobile assembly painter **9496**
automobile assembly worker **9482**
automobile association executive director **0015**
automobile body repairer helper **7612**
automobile body repairman/woman **7322**
automobile bumper straightener **7612**
automobile carrier driver **7411**
automobile claims technical adjuster **1233**
automobile cleaner **6662**
automobile damage repair estimator **7322**
automobile dealerships service representative **1453**
automobile dipper-painter **9496**
automobile driver training school manager **0651**
automobile driving school manager **0651**
automobile engine tester – automobile assembly **9482**
automobile final inspector – automobile assembly **9482**
automobile gear assembler **9486**
automobile hood assembler – motor vehicle manufacturing **9482**
automobile inspector – motor vehicle manufacturing **9482**
automobile inspector and tester – motor vehicle manufacturing **9482**
automobile insurance agent **6231**
automobile insurance salesman/woman **6231**
automobile interior fittings production manager **0911**
automobile leasing agent **6421**
automobile leasing representative **6421**
automobile lubricator **7443**
automobile mechanic **7321**
automobile mechanics foreman/woman **7216**
automobile painter – motor vehicle manufacturing **9496**
automobile polisher-sander – motor vehicle repair **7322**
automobile production manager **0911**
automobile racer **5251**
automobile radio and accessories installer – motor vehicle manufacturing **9482**
automobile repair garage manager **0621**
automobile repair shop manager **0621**
automobile repossessor **6461**
automobile sales representative – retail **6421**
automobile salesperson I **6421**
automobile service mechanic **7321**
automobile servicing manager **0621**
automobile supply clerk **1473**
automobile tire builders foreman/woman **9214**
automobile transport driver **7411**
automobile underwriter – insurance **1234**
automobile upholsterer **7341**
automobile wrecker **7445**
automobile-rental counter representative **6421**
automotive air conditioning mechanic **7321**
automotive assembler – motor vehicle manufacturing **9482**
automotive body mechanic **7322**
automotive body painter **7322**
automotive body repair foreman/woman **7216**
automotive body repair shop supervisor **7216**
automotive body repairer **7322**
automotive body repairer-painter **7322**
automotive body shop foreman/woman **7216**
automotive body shop supervisor **7216**
automotive body technician **7322**
automotive brake mechanic **7321**
automotive brake repairer **7321**
automotive brake specialist **7321**
automotive carburetor mechanic **7321**
automotive door panelling assembler – plastic products manufacturing **9495**
automotive drive trains technician **7321**
automotive electrical and tune-up service technician **7321**
automotive electrical mechanic **7321**

automotive electrical technician **7321**
automotive electrician helper **7612**
automotive electronic accessories installer and repairer – motor vehicle manufacturing **9482**
automotive engine accessories assembler **9486**
automotive engine assembler **9486**
automotive engine mechanic inspector **7321**
automotive engine quality control inspector **9482**
automotive engine quality-control assembly inspector **9486**
automotive engine repair foreman/woman **7216**
automotive engineer **2132**
automotive glass technician **7322**
automotive machine shop foreman/woman **7211**
automotive machinist **7231**
automotive maintenance equipment servicer **7445**
automotive mechanic **7321**
automotive mechanic helper **7612**
automotive mechanical repairer **7321**
automotive muffler installer **7443**
automotive painter – motor vehicles repair **7322**
automotive painter apprentice **7322**
automotive painting and refinishing technician **7322**
automotive parts clerk – retail **1472**
automotive parts sales representative – wholesale (non-technical) **6411**
automotive parts salesperson – wholesale **6411**
automotive partsperson – retail **1472**
automotive partsperson apprentice **1472**
automotive production fitter **9486**
automotive radiator assembler **9486**
automotive radiator installer **7443**
automotive radiator installer – automotive repair **7443**
automotive radiator mechanic **7321**
automotive radiator mechanic apprentice **7321**
automotive radiator repairer **7321**
automotive repair and service shop supervisor **7216**
automotive repair instructor – college or vocational institute **4131**
automotive rubber parts cutter **9423**
automotive service mechanics foreman/woman **7216**
automotive service mechanics supervisor **7216**
automotive service technician **7321**
automotive service technician – electrical and fuel systems **7321**
automotive service technician – fuel and electronics systems **7321**
automotive service technician – steering, suspension and brakes **7321**
automotive service technician – transmission **7321**
automotive service technician apprentice **7321**
automotive shock absorber installer **7443**
automotive spring installer **7443**
automotive technician – air conditioning system **7321**
automotive technician – automatic transmission systems **7321**
automotive technician – brakes systems **7321**
automotive technician – electrical and electronic systems **7321**
automotive technician – engine and fuel systems **7321**
automotive technician – front-end systems **7321**
automotive technician – fuel systems **7321**
automotive technician – standard transmission systems **7321**
automotive technician – transmission systems **7321**
automotive technician, drive trains **7321**
automotive testing shop supervisor **7216**
automotive upholsterer **7341**
automotive vehicle tester **7321**
automotive vehicle testing mechanic **7321**
automotive wiring harness inspector – industrial electrical equipment **9485**
automotive-generator and starter repairer **7333**
autopsy assistant **3414**
autopsy attendant **3414**
autopsy pathologist **3111**
autopsy technician **3414**
autopsy technologist – medical laboratory **3211**
auxiliary equipment operator **7351**
auxiliary equipment operator – primary metal processing **9411**
auxiliary operator – telephone system **1424**
auxiliary plant operator **7351**
avalanche controller **2213**
avalanche observer **2213**
avian veterinarian **3114**
aviation and space museum curator **5112**
aviation electrical components technician **2244**
aviation electronic components technician **2244**
aviation instrument technician **2244**
aviation machinist **7231**
aviation mechanical component shop technician **7315**
aviation medicine technician **3219**
aviation painter **9496**

aviation partsperson **1472**
aviation school manager **0312**
aviation technician – military **7315**
aviation welding technician **7265**
avionics and electronics calibration specialist **2244**
avionics assembler **9483**
avionics engineer **2133**
avionics equipment assembler **9483**
avionics inspector **2244**
avionics maintenance technician **2244**
avionics mechanic **2244**
avionics service supervisor **1215**
avionics systems installer **2244**
avionics systems technician – military **2244**
avionics technician **2244**
awning and tent repairer **7445**
awning erector **7441**
awning frame assembler **9498**
awning installer **7441**
awning installer helper **7611**
awning maker, aluminum **9498**
awning maker, canvas **9498**
axle assembler – automobile assembly **9482**
axle cutter **9511**
axle lathe operator **9511**
Axminster carpet weaver **9442**

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baby carriage assembler **9498**
baby carriage assembly foreman/woman **9227**
baby-care worker **4214**
baby-care worker assistant **4214**
baby-care workers supervisor **4214**
babysitter **6474**
baccarat croupier **6443**
back padder – furniture manufacturing **9619**
back strip machine tender – rubber products manufacturing **9423**
back tender – cloth printing **9443**
back tender, paper machine **9234**
backfiller **8411**
backfiller – underground mining **8411**
background artist **5241**
backhoe mechanic **7312**
backhoe operator **7421**
backing-in machine tender **9421**
backplane and frame wiring operator **9483**
back-up musician **5133**
bacon curer **9461**
bacon grader **9465**
bacteriological technician **2221**
bacteriological technologist **2221**
bacteriologist **2121**
bacteriologist – animal health **2121**
bacteriology professor – university **4121**
badminton player **5251**
bag boy/girl **6622**
bag clerk **6622**
bag liner – packaging **9619**
bag machine operator **9422**
bag maker – arts and crafts **5244**
bag maker – paper converting **9435**
bag maker, leather **9498**
bag maker, paper **9435**
bag repairer – paper products **9435**
bag sewer – textile manufacturing **9451**
bag sewer, leather **9451**
bagel baker **6252**
bagel maker **6252**
baggage agent – airline **6433**
baggage agent – railway **6434**
baggage agent (except airline) **6434**
baggage clerk (except airline) **6434**
baggage handler **6672**
baggage handler supervisor **6216**
baggage inspector, customs **1228**
baggage loader – air transport **7437**
baggage master **6672**
baggage porter **6672**
baggage porter supervisor **6216**
baggage tracer, airline **6433**
baggage tracing agent – airline **6433**
bagger – food and beverage processing **9617**
bagger, garments – garment manufacturing **9619**
bagger, laundry and dry cleaning **6681**
bagging machine feeder **9619**
bagging machine setter **9461**
bagging machine set-up man/woman **9461**
baghouse attendant – mineral processing **9611**
baghouse operator **9411**
bag-making machine operator – plastic manufacturing **9422**
bag-making machine set-up operator – paper converting **9435**
bag-making machine tender helper **9614**
bailiff **6461**
bakelite mixer operator – plastic manufacturing **9422**
bake-off equipment tender – food and beverage processing **9461**
baker **6252**
baker – retail **6252**

baker (patissier) **6252**
baker apprentice **6252**
baker helper **9617**
baker, bricks – clay products **9414**
baker, specialty foods **6252**
baker, specialty foods – retail **6252**
bakery bench hand **6252**
bakery clerk **6421**
bakery counter clerk **6421**
bakery deliveryman/woman **7414**
bakery department manager **0621**
bakery foreman/woman – food and beverage processing **9213**
bakery goods sales clerk **6421**
bakery labourer **9617**
bakery machine operator – food and beverage processing **9461**
bakery machinery mechanic **7311**
bakery manager – retail **0621**
bakery plant supervisor **9213**
bakery products bander **9617**
bakery products divider – food and beverage processing **9617**
bakery products packager **9617**
bakery products wrapper **9617**
bakery route salesman/woman **7414**
bakery supervisor **6252**
bakery supervisor – retail **6252**
baking and confectionery making foreman/woman **9213**
baking foreman/woman – food and beverage processing **9213**
balalaika maker **5244**
balance clerk **1431**
balancing machine operator – electrical equipment manufacturing **9487**
balancing machine operator – small electric motors **9487**
balancing machine tender – electrical equipment manufacturing **9487**
balcony labourer – glass manufacturing **9611**
balcony worker – glass manufacturing **9611**
bale breaker – textile manufacturing **9441**
bale checker – textile processing **9616**
bale-breaker tender – textile manufacturing **9441**
baler – agriculture **8431**
baler – pulp and paper **9432**
baler tender **9619**
baler tender – packaging **9619**
baler, cloth – textiles **9619**
baler, scrap metal – primary metal processing **9611**
balerman/woman – pulp and paper **9433**
balerworker **9619**
baling machine operator – farm **8431**
baling machine tender – rubber and plastic products manufacturing **9615**
baling press tender – printing **9619**
baling press tender – pulp and paper **9433**
baling press tender – rubber and plastic products manufacturing **9615**
ball and roller-bearings assembly foreman/woman **9226**
ball bearing inspector **9498**
ball bearing tester **9498**
ball fringe machine tender **9442**
ball fringe maker, machine **9442**
ball maker, billiards **9517**
ball mill foreman/woman – mineral products processing **9211**
ball mill helper – mineral products processing **9611**
ball mill labourer – mineral products processing **9611**
ball mill operator **9411**
ball mill worker – mineral products processing **9611**
ball weigher – toy manufacturing **9619**
ballast control operator – offshore drilling rig **8412**
ballast regulator operator – railway **7432**
ballast transformer assembler **9484**
ballast transformer tester **9484**
ballast-equalizer operator – railway **7432**
ballast-leveller operator – railway **7432**
ballerina **5134**
ballet company director **0512**
ballet dancer **5134**
ballet master **5134**
ballet teacher **5134**
ballistician **2115**
ballistics examiner **2115**
balloon collar roller – rubber products manufacturing **9615**
balloon form stripper and cleaner – rubber products manufacturing **9615**
balloon leacher and curer – rubber products manufacturing **9615**
balloon pilot **6442**
balloon printer **9471**
ballracker, billiards **6671**
ballroom dancing teacher **5134**
banbury machine operator – rubber products manufacturing **9423**

banbury mixer operator – plastic manufacturing **9422**
banbury mixer operator – rubber products manufacturing **9423**
banbury operator – plastic manufacturing **9422**
banbury operator – rubber products manufacturing **9423**
band administrator **1221**
band assembler – rubber products manufacturing **9423**
band chief, First Nations **0011**
band conductor **5132**
band director **5132**
band manager – First Nations **0012**
band nailer – wood products **9619**
band resaw operator – woodworking **9513**
band ripsaw operator – woodworking **9513**
band saw operator – woodworking **9513**
band saw tender – woodworking **9513**
band scroll saw operator – woodworking **9513**
band stock preparer – rubber products manufacturing **9423**
bander, crates **9619**
bander, paper goods **9619**
banding machine tender – tobacco products **9617**
banding machine tender – woodworking **9513**
banding machine tender, glassware **9413**
band-knitting machine operator **9442**
bandmaster **5132**
bandoleer packer – explosives manufacturing **7452**
bandoleer straightener-stamper **9619**
band-sawing machine tender – woodworking **9513**
bank branch accountant **1111**
bank branch manager **0122**
bank clerk **1434**
bank clerks supervisor **1212**
bank credit vice-president **0013**
bank customer service officer **1433**
bank director **0122**
bank inspector **1114**
bank manager **0122**
bank messenger **1463**
bank note designer **5241**
bank president **0013**
bank reserves auditor **1111**
bank runner **1463**
bank teller **1433**
banking accounts manager **1232**
banking accounts officer **1232**
banking operations manager **0122**
bankruptcy trustee **1111**
banquet captain **6453**
banquet chef **6241**
banquet cook **6242**
banquet headwaiter/headwaitress **6453**
banquet manager **0631**
banquet server **6453**
banquet waiter/waitress **6453**
banquette assembler – wood product manufacturing **9493**
bar attendant **6452**
bar helper **6641**
bar manager **0631**
bar mill finisher – primary metal processing **9231**
bar service waiter/waitress **6453**
bar steward **6452**
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barber **6271**
barber apprentice **6271**
barber shop manager **0651**
bargaining agent **1121**
barge captain **7436**
barge deckhand **7433**
barge loader **7451**
barge operator **7436**
baritone **5133**
barkeeper **6452**
barker operator – wood processing **9434**
barking machine cleaner – wood processing **9614**
barking machine operator – wood processing **9434**
barmaid **6452**
barman/barwoman **6452**
barman/woman, beer **6452**
barn worker **8431**
barometer assembler **9498**
barrel assembler **9513**
barrel builder, wood **9493**
barrel charrer **9619**
barrel cleaner – food and beverage processing **9617**
barrel cooper – woodworking **9513**
barrel end fitter, wood **9493**
barrel end fitter, wood – woodworking **9513**
barrel end sawyer **9513**
barrel filler – food and beverage processing **9617**
barrel header, wood **9493**
barrel heading fitter, wood **9493**
barrel heading sawyer **9513**
barrel inspector – wood products manufacturing **9493**
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barrel maker, wood **9493**
barrel rifler **9511**
barrel stave assembler, wood **9493**
barrel stave leveller – wood products manufacturing **9619**
barrel straightener **9619**
barrel threader, small arms **9511**
barrel-end machine tender – woodworking **9513**
barrel-header fitter, wood – woodworking **9513**
barrister **4112**
barrister and solicitor **4112**
bar-straightening machine operator – metal processing **9411**
bartender **6452**
bartender helper **6641**
bartender, tap **6452**
bartenders supervisor **6452**
base filler – electrical equipment manufacturing **9487**
base inventory control officer – military **0114**
base post exchange clerk – military **1461**
base vehicle safety officer – military **0713**
baseball centre winder **9517**
baseball coach **5252**
baseball glove shaper **9619**
baseball maker **9498**
baseball manager-coach **5252**
baseball player **5251**
baseball scout **5252**
baseball team coach **5252**
base-filling machine operator – electrical equipment manufacturing **9487**
base-filling machine operator – electronic equipment manufacturing **9483**
base-filling machine tender – electrical equipment manufacturing **9487**
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basket machine operator – woodworking **9513**
basket maker, wire **9516**
basket maker, wood **9493**
basket unloader **9461**
basket weaver **5244**
basketball coverer **9498**
basketball player **5251**
basketball scout **5252**
basketball team coach **5252**
bass **5133**
bass drum teacher – private, conservatory or studio lessons **5133**
bass player **5133**
bassoon teacher – private, conservatory or studio lessons **5133**
basting machine operator – sewing **9451**
basting sewing machine operator, automatic **9451**
batch digester operator **9233**
batch dryer tender helper **9613**
batch dyer – textile manufacturing **9443**
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batch mixer, feed – food and beverage processing **9461**
batch operator – pulp and paper **9233**
batch plant tender – glass **9413**
batch process cook – pulp and paper **9233**
batch still operator **9421**
batching chemical process operator **9232**
bater – hide and pelt processing **9453**
bath mix solvent recoverer **9613**
bathtub refinisher **9496**
bathtub varnisher **9496**
batik artisan **5244**
baton twirling instructor **5134**
batter and dough mixer – food and beverage processing **9461**
batterboard setter **7611**
battery acid adjuster **9421**
battery acid dumper **9619**
battery assembler **9487**
battery case inspector and tester **9487**
battery charger – electrical equipment manufacturing **9487**
battery charger assembler **9487**
battery charger operator – electrical equipment manufacturing **9487**
battery installer – motor vehicle manufacturing **9482**
battery lead burner **7265**
battery lead burner helper **9612**
battery lead-burner operator **7265**
battery loader – textile processing **9616**
battery maker **9487**
battery paste maker **9421**
battery paste mixer **9421**
battery plate offbearer **9619**
batting machine tender – textile manufacturing **9441**
beach lifeguard **5254**
beachcomber **7436**
bead picker – rubber products manufacturing **9615**
bead stringer **9498**
bead-forming machine operator – rubber products manufacturing **9423**
beading machine operator – metal products manufacturing **9516**

beading machine operator – rubber products manufacturing **9423**
beadworker, hand **5244**
beaker tester **9413**
beam changer – textiles **9442**
beam department foreman/woman – hide and pelt processing **9225**
beam dyer – textile manufacturing **9443**
beam setter – textile manufacturing **9441**
beam tier – textile manufacturing **9441**
beam trawl fisherman/woman **8262**
beam warper – textile manufacturing **9441**
beam warper helper – textile processing **9616**
beamer – hide and pelt processing **9453**
beamer – textile manufacturing **9441**
beamer helper – textile manufacturing **9441**
beamhouse worker – hide and pelt processing **9453**
bean sprout farmer **8251**
bean sprout grower **8251**
bearing assembler **9498**
bearing borer **9511**
bearing grinder **9511**
bearing inspector **9498**
beater engineer – pulp and paper **9233**
beater helper – pulp and paper **9614**
beater operator – pulp and paper **9432**
beater operator helper – pulp and paper **9614**
beater room foreman/woman – pulp and paper **9215**
beater room lead hand – pulp and paper **9233**
beating machine tender – hide and pelt processing **9453**
beautician **6482**
beauty and charm course instructor **4216**
beauty care specialist **6482**
beauty culture operator **6482**
beauty culture school instructor **4216**
beauty culturist **6482**
beauty products consultant – door-to-door sales **6623**
beauty products representative – home sales **6623**
beauty salon attendant **6683**
beauty salon inspector **2263**
beauty salon operator **6271**
beauty salon supplies attendant **6683**
beauty shop manager **0651**
beauty treatment operator **6482**
beaver trapper **8442**
bed and breakfast manager **0632**
bed and breakfast operator **0632**
bed assembler **9492**
bedside nurse **3152**
bedspring stretcher **9492**
beef boner **9462**
beef boner – meat packing plant **9462**
beef cattle farm worker **8431**
beef cattle farmer **8251**
beef cattle herdsperson **8253**
beef cooler worker – meat packing plant **9462**
beef dressing foreman/woman **9213**
beef grader **9465**
beef marker – food and beverage processing **9617**
beef producer **8251**
beef sticker – meat packing plant **9462**
beef trimmer – meat packing plant **9462**
beef-pluck trimmer **9462**
beekeeper **8251**
beer barman/woman **6452**
beer bottling line quality control tester **9465**
beer carton packer **9461**
beer filter operator **9461**
beer pasteurizer **9461**
beer sales representative – wholesale **6411**
beer sampler – food and beverage processing **9617**
beer server **6453**
beer store manager **0621**
beer store sales clerk **6421**
beer tester **9465**
beer-dispensing equipment repairer **7445**
beet pulp press tender **9461**
beet washer **9617**
beet washer helper **9617**
behaviour therapy services director **0311**
behavioural aide **4212**
behavioural consultant **4153**
behavioural modification psychologist **4151**
behavioural psychologist **4151**
behavioural therapist **4151**
behaviourist **4151**
bell captain **6216**
bellhop **6672**
bellows maker **5244**
belly dancer **5134**
belt brander – rubber products manufacturing **9423**
belt buffer, rubber **9423**
belt builder helper – rubber products manufacturing **9615**
belt builder, rubber **9423**
belt building foreman/woman – rubber and plastic manufacturing **9214**
belt conveyor attendant **7452**

belt edge stainer **9619**
belt laminator, hand – plastic products manufacturing **9495**
belt liner **9619**
belt maker, leather **9619**
belt maker, rubber **9423**
belt repairer, industrial **7445**
belt sander – woodworking **9513**
belt-maker operator **9517**
beltman/woman **7452**
bench and structural assembler – aircraft assembly **9481**
bench assembler – electronic equipment manufacturing **9483**
bench assembler – wood products manufacturing **9493**
bench assembler, agricultural implements **9486**
bench assembler, aircraft **9481**
bench assembler, electrical appliances **9484**
bench assembler, wood products **9493**
bench assemblers foreman/woman – wood products manufacturing **9227**
bench blaster – underground mining **8231**
bench coremaker – foundry **9412**
bench die cutter **7232**
bench die fitter **7232**
bench die sinker **7232**
bench fitter – aircraft assembly **9481**
bench fitter – buses and trucks **9486**
bench fitter mechanic – aircraft assembly **9481**
bench grinder – metal products manufacturing **9612**
bench hand – jewellery manufacturing **9498**
bench hand, bakery **6252**
bench hand, machine shop – metal products manufacturing **9612**
bench hand, sheet metal mechanic **7261**
bench hand, wooden box **9493**
bench jig maker **7232**
bench lacquer sprayer **9496**
bench loom wire weaver **9516**
bench machine operator – woodworking **9513**
bench machinist **7231**
bench moulder – foundry **9412**
bench moulder – jewellery **7344**
bench moulder, dentures **3223**
bench set-up operator, machine tool **9511**
bench spray painter **9496**
bench stamping die maker **7232**
bench tool maker **7232**
bench worker – electronic equipment manufacturing **9483**
bench worker – furniture manufacturing **9492**
bench worker – garment manufacturing **9619**
bench worker, electrical appliances **9484**
bench worker, ophthalmic goods **3414**
bench worker, pianos and organs **9498**
benchman/woman – meat packing plant **9462**
bender set-up operator – metal products manufacturing **9514**
bender, clay pipes **9414**
bender, lacrosse sticks – woodworking **9513**
bending machine helper – metal products manufacturing **9612**
bending machine operator – metal forging **9512**
bending machine operator – pipelines **7611**
bending machine set-up operator – metal fabrication **9514**
bending machine tender – metal fabrication **9514**
bending machine tender – metal products manufacturing **9514**
bending press operator – metal fabrication **9514**
bending roll operator – metal fabrication **9514**
benefits and entitlement clerk – insurance **1434**
benefits and pension plan administrator **1432**
benefits manager **0112**
benefits officer **1432**
benzol agitator operator **9232**
bereavement counsellor **4153**
berry picker **8611**
best boy **5227**
beveller – shoe manufacturing **9619**
beveller, glass **9413**
beveller, hand lenses – non-prescription **9517**
beveller, stones **9414**
beverage and bottle inspector **9465**
beverage inspector **9465**
beverage service manager **0631**
beverage-canning machine operator **9461**
bias cutter – rubber products manufacturing **9423**
bias cutting machine operator helper – rubber products manufacturing **9615**
bias cutting operator – rubber products manufacturing **9423**
bias-cutting machine tender- fabric, fur and leather products manufacturing **9452**
Bible college teacher **4131**
Bible school teacher **4131**
bibliographer – library **5111**
bicycle assembler **9498**
bicycle assembly foreman/woman **9227**
bicycle inspector **9498**
bicycle mechanic **7445**
bicycle rental attendant **6671**

bicycle repair shop supervisor **7219**
bicycle repairer **7445**
bicycle salesperson – retail **6421**
bicycle shop manager **0621**
bicycle tour guide **6441**
bilateral relations chief **0414**
bilateral relations manager – social services **0314**
bilingual editor **5122**
bilingual services co-ordinator **1221**
bill clerk **1431**
bill collector **1435**
bill complaints investigator **1453**
bill distributor **1463**
bill poster **7611**
bill sorter **1413**
billboard erector **7441**
billet caster, zinc **9411**
billet heater **9411**
billet helper – primary metal processing **9611**
billet mill helper – primary metal processing **9611**
billet mill roller – primary metal processing **9231**
billet pusher **9611**
billet rolling mill helper – primary metal processing **9611**
billiard and bowling equipment installer-repairer **7445**
billiard ball maker **9517**
billiard cloth inspector **9498**
billiard cue maker **9513**
billiard cue weigher **7445**
billiard parlour attendant **6671**
billiard parlour supervisor **6216**
billiard player **5251**
billiard table assembler **9492**
billiard table cushion mounter **9498**
billiard table repairer **7445**
billiard table servicer **7445**
billiards ballracker **6671**
billing clerk **1431**
billing co-ordinator **1212**
billing machine operator **1431**
billing rate clerk **1471**
billing supervisor **1212**
billing unit head **1212**
bin attendant **7452**
bin cleaner – food and beverage processing **9617**
bin filler **7452**
binder – printing **9473**
binder and finisher – printing **9473**
binder assistant **9473**
binder helper – printing **9619**
binder operator – agriculture **8431**
binder, machine – printing **9473**
binders foreman/woman – printing **7218**
binders supervisor – printing **7218**
bindery assistant **9473**
bindery foreman/woman – printing **7218**
bindery helper **9619**
bindery labourer **9619**
bindery machine feeder – printing **9619**
bindery machine operator – printing **9473**
bindery operator **9473**
bindery supervisor – printing **7218**
bindery worker **9473**
bindery workers supervisor – printing **7218**
binding and finishing machine operator **9473**
binding machine operator – sewing **9451**
binding sewing machine operator **9451**
binding stitcher – footwear manufacturing **9451**
bingo caller **6671**
bingo floor attendant **6671**
bingo floorman/woman **6671**
bingo games supervisor **6216**
bingo hall attendant **6671**
binman/woman **7452**
biochemical and biotechnical engineer **2134**
biochemical engineer **2134**
biochemical technician – medical laboratory **3212**
biochemist **2112**
biochemist, medical – medicine **3111**
biochemistry laboratory technician **2211**
biochemistry laboratory technologist **2211**
biochemistry professor – university **4121**
biochemistry research scientist **2112**
biochemistry technician (except medical) **2211**
biochemistry technologist **2211**
biochemistry technologist – medical laboratory **3211**
biochemistry technologist (except medical) **2211**
bioelectrical engineer **2148**
biogeographer **4169**
biographer **5121**
biological and agricultural science statistician **2161**
biological anthropologist **4169**
biological chemist **2112**
biological illustrator **5241**
biological laboratory technologist **2221**
biological research department chief **0212**
biological scientist **2121**
biological technician **2221**
biological technician – medical laboratory **3212**
biological technologist **2221**
biologist **2121**

biologist, enzymology **2121**
biologist, medical parasitology **2121**
biologist, parasitology **2121**
biologist, protozoology **2121**
biologist, veterinary parasitology **2121**
biology professor – university **4121**
biology teacher – secondary school **4141**
biology teacher, high school **4141**
biomechanical engineer **2148**
biomechanics professor – university **4121**
biomedical and laboratory equipment repairer **2241**
biomedical engineer **2148**
biomedical engineer – research and development **2148**
biomedical engineering technologist **2241**
biometrician **2161**
biophysicist **2111**
biophysicist, radiation **2111**
bio-resources engineer **2148**
biostatistician **2161**
biostratigrapher **2113**
biotechnical engineer **2134**
biotechnology engineer **2134**
bird breeder **8251**
bird seller **0621**
birthing room nursing supervisor **3151**
biscuit baker **6252**
biscuit packer **9617**
bishop **4154**
bisque cleaner – clay products **9619**
bisque kiln operator – clay products **9414**
bisque placer – mineral products manufacturing **9611**
bit sharpener tender **9612**
bitumen extraction plant operator **9232**
bitumen upgrading plant operator **9232**
bituminous paver operator – heavy equipment **7421**
bituminous paving labourer **7611**
bituminous paving machine operator **7611**
black light inspector **2261**
black powder grainer and glazier tender **9421**
black powder press tender **9421**
blackboard eraser maker **9619**
blackboard maker **9498**
blackjack croupier **6443**
blacksmith **7266**
blacksmith – agriculture **7383**
blacksmith – manufacturing **7266**
blacksmith helper **9612**
blacksmith shop foreman/woman **7214**
blacksmith, farm **7383**
blacktop raker **7611**
blacktop spreader **7611**
bladder moulder – rubber products manufacturing **9423**
blanching machine tender **9461**
blanket weaver **9442**
blast furnace foreman/woman **9211**
blast furnace helper **9611**
blast furnace operator **9231**
blast furnace tapper **9411**
blast furnaceman/woman **9231**
blast hole driller – underground mining **8231**
blaster – quarrying **7372**
blaster – surface mining **7372**
blaster – underground mining **8231**
blaster (except underground mining) **7372**
blaster helper – underground mining **8411**
blaster, construction **7372**
blaster, line crew – underground mining **8411**
blasters foreman/woman – construction **7217**
blasters foreman/woman – mining and quarrying **8221**
blasters foreman/woman – quarrying **8221**
blasters foreman/woman – surface mining **8221**
blasting cap assembler **9498**
bleach boiler tender **9432**
bleach field operator – pulp and paper **9233**
bleach liquor maker, pulp **9432**
bleach plant foreman/woman – pulp and paper **9215**
bleach plant operator – pulp and paper **9233**
bleach stock preparation operator – pulp and paper **9233**
bleacher – textile manufacturing **9443**
bleacher helper – textile processing **9616**
bleacher operator – food and beverage processing **9461**
bleacher operator – pulp and paper **9233**
bleacher tender – pulp and paper **9432**
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bleaching machine operator – textile manufacturing **9443**
bleaching range operator – textile manufacturing **9443**
bleaching solution maker **9421**
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blender – tobacco processing **9464**
blender and packer – food and beverage processing **9617**

blender and wrapper – food and beverage processing **9617**
blender operator – chemical processing **9421**
blender operator – food and beverage processing **9461**
blender operator – oil field services **8412**
blender operator – plastic manufacturing **9422**
blender tender – primary metal and mineral products processing **9411**
blender, glues – chemical processing **9421**
blender, margarine **9461**
blender, petroleum **9232**
blender, propellants **9232**
blending machine operator – oil field services **8412**
blending machine tender – textile manufacturing **9441**
blindstitch-sewing machine operator **9451**
blister former – plastic products manufacturing **9495**
blister packer **9619**
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block machine operator – concrete, clay and stone products **9414**
block maker, cement – concrete products **9414**
block maker, concrete **9414**
block maker, stonework **9414**
block moulder, cement – concrete products **9414**
block sander and glazier **9496**
block splitter – sawmill **9431**
blocker – laundry and dry cleaning **6682**
blocker, lenses **9619**
blocker, metal base **9472**
blockholer – underground mining **8231**
blocking press operator – printing **9473**
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block-making machine operator – concrete, clay and stone products **9414**
block-making machine tender – concrete, clay and stone products **9414**
blood bank technician **3212**
blood bank technologist **3211**
blood donor clinic assistant **3414**
blood donor clinic attendant **3414**
blood donor clinic helper **3414**
blood sampling attendant **3414**
blooming mill roller **9231**
blow moulder operator – plastic manufacturing **9422**
blow moulding foreman/woman – rubber and plastic manufacturing **9214**
blow moulding machine operator – plastic manufacturing **9422**
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blower operator, insulation **7611**
blow-moulding process operator – plastic manufacturing **9422**
blow-out and test operator – rubber products **9423**
blowtorch operator **7265**
blowtorch welder **7265**
blue-leather grader **9454**
blueprint blocker **9471**
blueprint developer **9471**
blueprint trimmer-wrapper – printing **9619**
blueprinter helper – printing **9619**
blueprinting machine operator **9471**
blues singer **5133**
board drop hammer operator **9512**
board grader – wood processing **9436**
board hammer operator – metal forging **9512**
board laboratory operator **9483**
board marker, grain quotations **1411**
board of education administrator **0313**
board of education inspector **4166**
board sawyer – sawmill **9431**
boarder – textile manufacturing **9443**
boarding house keeper **0632**
boarding house manager **0632**
boarding kennel manager **0651**
boarding machine tender – hide and pelt processing **9453**
boarding machine tender – textile manufacturing **9443**
boardman/woman – chemical processing **9232**
boat and marine equipment salesperson – retail **6421**
boat and ship insulator **7293**
boat assembler **9491**
boat assembler, aluminum **9491**
boat assembler, fibreglass **9491**
boat assembly helper **9619**
boat assembly inspector **9491**
boat assembly laminator **9491**
boat assembly repairer **9491**
boat assembly repairer, fibreglass **9491**
boat builder, quartz – stone products **9414**
boat carpenter **7271**
boat crane operator **7371**
boat dispatcher **1475**
boat engine repair foreman/woman **7216**
boat inspector **9491**
boat inspector and finisher, fibreglass **9491**
boat inspector, wood **9491**

boat joiner **7271**
boat loader **7451**
boat motor installer **9491**
boat propeller repairer **7445**
boat rental attendant **6671**
boat tour guide **6441**
boatbuilder, wood **7271**
boatbuilding apprentice **7271**
boatswain **7433**
boatswain – military **7433**
boatswain – water transport **7433**
boatswain, fishing vessel **8261**
bobbin changer – textile processing **9616**
bobbin cleaner – textile processing **9616**
bobbin collector – textile processing **9616**
bobbin dryer – textile manufacturing **9443**
bobbin processor **9616**
bobbin scraper – textile processing **9616**
bobbin sorter – textile processing **9616**
bobbin stripper – textile manufacturing **9441**
bobbin winder – textile manufacturing **9441**
bobcat operator **7421**
bobsled coach **5252**
bobsleigh coach **5252**
body and fender repairer – automobile **7322**
body and fender repairman/woman – automobile **7322**
body assembler – motor vehicle manufacturing **9482**
body department technician – motor vehicle manufacturing **9482**
body frame inspector – motor vehicle manufacturing **9482**
body piercer **6482**
body production operator – motor vehicle manufacturing **9482**
body repairer apprentice, motor vehicles **7322**
body repairer helper, automobile **7612**
body repairer, motor vehicles **7322**
body shop foreman/woman **7216**
body shop supervisor **7216**
body shop supervisor – motor vehicle manufacturing **9221**
bodyguard – military **6261**
bodyguard – police **6261**
bodyguard (except police) **6651**
body-in-white inspector – motor vehicle manufacturing **9482**
boiler – textile manufacturing **9443**
boiler and machinery inspector **2262**
boiler and machinery underwriter – insurance **1234**
boiler and pipe insulation specialists foreman/woman **7219**
boiler and pipe insulator **7293**
boiler and pipe insulators foreman/woman **7219**
boiler cleaner **6662**
boiler fitter **7262**
boiler inspector **2262**
boiler installation inspector **2264**
boiler installer **7262**
boiler insulator **7293**
boiler operator **7351**
boiler operator helper **9613**
boiler painter **9496**
boiler repairer **7262**
boiler repairman/woman **7262**
boiler shop mechanic **7262**
boiler tender – ships **7434**
boiler tester **2261**
boiler water tester **9613**
boiler welder **7265**
boilerhouse helper **9613**
boilerhouse machinery mechanic **7311**
boilerhouse operator **7351**
boilermaker **7262**
boilermaker apprentice **7262**
boilermaker helper **9612**
boilermaker, erection and repair **7262**
boilermaker, maintenance **7262**
boilermaker-welder **7262**
boilermaking shop foreman/woman **7214**
bologna maker **9461**
bolt header operator **9516**
bolt loader – sawmill **9614**
bolt machine operator **9516**
bolt maker **9516**
bolt sawyer – sawmill **9431**
bolt threader **9511**
bolter helper – food and beverage processing **9617**
bolter operator – food and beverage processing **9461**
bolter operator – underground mining **8231**
bolterman/woman – sawmill **9431**
bolt-threading machine operator **9511**
bomb-disposal expert **7383**
bond broker **1113**
bond dealer **1113**
bond sales manager **0121**
bond trader **1113**
bonder – rubber products manufacturing **9423**
bonder operator, luggage shell **9517**
bonding machine operator, glass **9413**

bonding machine tender – textile manufacturing **9443**
bonding press tender – rubber products manufacturing **9423**
bonds underwriter **1114**
bone crusher – food and beverage processing **9461**
boner, garments and hosiery **9619**
boner, meat **9462**
book cover creaser **9435**
book critic **5123**
book editor **5122**
book finisher – printing **9473**
book jacket machine tender **9435**
book publicist **5124**
book publishing manager **0512**
book returns clerk – library **1451**
book reviewer **5123**
book salesperson – retail **6421**
book store clerk – retail **6421**
book trimmer **9473**
bookbinder – printing **9473**
bookbinder assistant **9473**
bookbinder, hand **5244**
bookbinder, machine **9473**
bookbinding machine operator **9473**
book-cutting machine operator **9473**
booker – rubber products manufacturing **9615**
booker – tobacco processing **9464**
booking agent – travel agency **6431**
booking agent – wholesale **6411**
bookings clerk – railway **6434**
bookings clerk – wholesale travel **6434**
bookings clerk (except airline) **6434**
bookkeeper **1231**
bookkeepers and accounting clerks supervisor **1212**
bookkeeping clerk **1231**
bookkeeping machine operator **1431**
bookkeeping supervisor **1212**
bookkeeping teacher – college or vocational school **4131**
bookmobile clerk **1451**
bookmobile driver **7414**
bookmobile librarian **5111**
book-sewing machine operator – printing **9473**
bookstore manager **0621**
boom crane operator **7371**
boom grip **5227**
boom man/woman **8616**
boom master – logging **8211**
boom microphone operator **5227**
boom operator **5227**
boom truck crane operator **7371**
boom truck hoist operator **7371**
boom worker **8616**
boom worker – logging **8616**
boom worker – mill pond **8616**
boom-conveyor operator **7421**
boot and shoe foreman/woman **9225**
boot and shoe grader **9454**
boot and shoe inspector **9454**
boot and shoe matcher **9619**
boot and shoe perforator **9619**
boot and shoe sorter **9454**
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boot repairer **7343**
bootmaker **7343**
bootmakers and shoemakers foreman/woman **9225**
bootmakers foreman/woman **9225**
borer – metal machining **9511**
borer – woodworking **9513**
boring machine operator – metal machining **9511**
boring machine operator – woodworking **9513**
boring mill operator – concrete products **9414**
boring mill operator – metal machining **9511**
boring mill set-up operator – metal machining **9511**
boss, layers track – underground mining **8221**
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boss, yard – mining and quarrying **8221**
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botanical technician **2221**
botanical technologist **2221**
botanist **2121**
botany professor – university **4121**
bottle assembler, Thermos **9498**
bottle cap seal machine setter **9517**
bottle cap seal machine tender **9517**
bottle caser – food and beverage processing **9617**
bottle checker – food and beverage processing **9617**
bottle inspector – glass products manufacturing **9413**
bottle machine operator – glass and glass products manufacturing **9413**
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bottle maker operator – glass and glass products 9413
bottle sorter 9619
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bottle washer – food and beverage processing 9617
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bottling machine operator – food and beverage processing 9461
bottling supervisor – food and beverage processing 9213
bottom cager – underground mining 8411
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bouncer – security 6651
bouquet salesperson 6421
bow repairer 7445
bowker – textile manufacturing 9443
bowl blank boring and finishing machine operator 9513
bowling alley attendant 6671
bowling instructor 5254
bowling pinsetter 6671
box assembler, wood 9493
box bander 7452
box blank former, wood 9493
box blank machine operator 9517
box blank repairer – woodworking 9513
box boy/girl 6622
box builder, wood 9493
box cutter – paper converting 9435
box cutter, corrugated – paper converting 9435
box factory labourer 9619
box filler 7452
box finisher – paper converting 9435
box gluer – paper converting 9435
box labeller 9619
box liner – paper converting 9435
box machine operator – food and beverage processing 9461
box maker – paper converting 9435
box maker operator 9435
box maker, cardboard – paper converting 9435
box maker, paper – paper converting 9435
box maker, wood 9493
box making foreman/woman – paper converting 9215
box marker – manufacturing 9619
box office cashier 6611
box packer 9619
box printer – printing 9471
box sealer 9619
box spring assembler 9492
box spring frame assembler 9492
box spring unit assembler – furniture manufacturing 9492
box stitcher – food and beverage processing 9617
box, case and lining printer 9471
box-blank machine feeder 9619
boxcar loader 7452
box-end-stapling machine tender 9517
boxer 5251
boxing promoter 5124
boxing second 6671
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box-printing machine operator 9471
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brace maker 3219
bracelet assembler 9498
brachytherapy technologist 3215
braid maker – textiles 9442
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braider operator – rubber products manufacturing 9423
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Braille and talking books library clerk 1451
Braille block maker 1423
Braille computer translations specialist 1423
Braille data entry clerk 1423
Braille duplicator 9471
Braille instructor 4215
Braille keyboard operator – typesetting 1423
Braille printer 9471
Braille process engraver 1423
Braille stereograph machine operator 1423
Braille teacher 4215
Braille transcription technician 1423
Braille volumes transcriber 1411
Braille-impressing machine operator 9471
Braillewriter operator 1423
brake assembler – motor vehicle manufacturing 9482
brake drum lathe operator 9511

brake helper – metal products manufacturing **9612**
brake inspector – railway car **7314**
brake lining finisher, asbestos **9414**
brake setter – metalworking **9514**
brake shop manager **0621**
brake systems mechanic **7321**
brake worker – switching yard **7362**
brakeman/woman – railway **7362**
brakeman/woman – railway yard **7362**
brakeman/woman – switching yard **7362**
branch accountant, bank **1111**
branch administrative manager – banking, credit and investment **0122**
branch exchange repairer – telecommunications **7246**
branch library clerk **1451**
branch manager – administration **0114**
branch manager – banking, credit and investment **0122**
branch manager – insurance **0121**
branch manager – retail **0621**
branch manager, real estate **0121**
branch supervisor, pest control **7219**
brand recorder **1441**
brass caster **9412**
brass or bronze chaser **7344**
brattice builder – underground mining **8411**
brazer **7265**
brazer and hammerer **7265**
brazer, furnace **7265**
brazer, gas **7265**
brazer, resistance **7265**
brazing machine feeder **9612**
brazing machine operator **7265**
brazing machine setter **7265**
bread baker **6252**
bread baker – retail **6252**
bread deliverer **7414**
bread inspector **2222**
bread pan greaser – food and beverage processing **9617**
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bread slicer operator **9461**
bread tester **9465**
bread-slicing machine operator **9461**
breakdown mill operator **9231**
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breaker feeder – textile manufacturing **9441**
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breaker tender – pulp and paper **9432**
breaker tender – textile manufacturing **9443**
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breaster, heels – footwear manufacturing **9517**
breeder, dogs **8251**
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breeder, goat **8251**
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breeder, rabbit **8251**
brewer **9461**
brewer helper – food and beverage processing **9461**
brewer supervisor **9213**
brewery kettle tender – food and beverage processing **9461**
brewery labourer **9617**
brewery pumpman/woman **9461**
brewery stillman/woman – beverage processing **9461**
brewery supervisor **9213**
brewery technician **2211**
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brewery tester – food and beverage processing **9465**
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brewhouse operator **9461**
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briar-bowl turner – woodworking **9513**
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brick and stone masons foreman/woman **7219**
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brick and tile caster – clay products **9414**
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brick and tile foreman/woman **9211**
brick and tile inspector **9415**
brick and tile kiln cleaner **9611**
brick and tile tester **9415**
brick and tile-making machine operator – clay products **9414**
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brick presser operator **9414**
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bricklayer foreman/woman **7219**
bricklayer helper **7611**
bricklayer supervisor **7219**
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bricklayer, furnace lining **7281**
bricklayer, kiln repair **7281**
bricklayer, ladle repair **7281**
bricklayer, maintenance **7281**
bricklayer, refractory brick **7281**
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bricklayer-contractor **7219**
bricklaying and masonry contractor **7219**
bricklaying contractor **7219**
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brickmason's helper **7611**
brick-moulding machine operator – clay products **9414**
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bridge and building construction manager **0711**
bridge and building inspector **2264**
bridge and girder plater **7263**
bridge and highway construction gang foreman/woman **7217**
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bridge carpenter **7271**
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bridge construction ironworker **7264**
bridge construction superintendent **0711**
bridge crane operator **7371**
bridge design technician **2231**
bridge engineer **2131**
bridge gang worker – construction **7611**
bridge inspector **2264**
bridge inspector – construction and maintenance **2264**
bridge instructor **5254**
bridge keeper – lock system **7435**
bridge operator – underground mining **8411**
bridge painter **7294**
bridge painters foreman/woman **7219**
bridge teacher **5254**
bridgemaster **7435**
bridgemaster – lock systems **7435**
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bright type processor **9472**
brine equipment tender **9232**
brine maker – mineral products processing **9411**
brine man/woman – food and beverage processing **9461**
brine mixer operator – food and beverage processing **9461**
brine purification operator **9232**
brine tank separator tender **9461**
brine well tender **8231**
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briquetting machine operator **9411**
brisket cutter – meat packing plant **9462**
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broaching machine operator – metal machining **9511**
broaching machine set-up operator – metal machining **9511**
broadcast clerk **1441**
broadcast engineer **5224**
broadcast field technician **5224**
broadcast interference inspector **2262**
broadcast journalist **5123**
broadcast maintenance technician **5224**
broadcast technician **5224**
broadcast transmitter operator **5224**
broadcaster **5231**
broadcasting control operator **5224**
broadcasting co-ordinator **5226**
broadcasting corporation president **0015**
broadcasting director **5131**
broadcasting engineer **5224**
broadcasting equipment salesperson **6221**
broadcasting manager **0512**
broadcasting producer **5131**
broadcasting professional engineer **2133**
broadcasting sports director **5131**
broadcasting station manager **0512**
broadcasting switcher **5224**
broadcasting technician **5224**
broadcasting transmitter operator **5224**
broadloom installer **7295**
broiler chicken producer **8251**
broiler cook **6242**
broiler producer **8251**
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broker **1113**
broker, advertising agency **6411**
broker, cargo **1236**
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broker, gas **1236**
broker, information customs **1236**
broker, insurance **6231**
broker, investments **1113**
broker, livestock **6411**
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broker, ship **1236**
broker, yacht **1236**
brokerage clerk **1434**
brokerage manager – investments **0121**
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broom assembler **9498**
broom cleaner and cutter **9619**
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broom stitcher **9498**
broom trimmer **9619**
broomcorn dyer **9517**
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brush coater operator – concrete products **9414**
brush cutter – forestry **8422**
brush finisher **9498**
brush lacer and trimmer – electrical equipment manufacturing **9487**
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bryologist **2121**
bucker – logging **8421**
buckers supervisor **8211**
bucket chucker – woodworking **9513**
bucket elevator operator **7452**
bucket lathe operator **9513**
bucketwheel operator **7421**
bucketwheel-excavator operator **7421**
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buckshot swage operator **9516**
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budget analyst **1112**
budget clerk **1431**
budget supervisor **1212**
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buffing machine operator – plastic manufacturing **9495**
buffing machine set-up operator – metal fabrication **9514**
buffing machine set-up operator, flatware **9517**
buffing machine tender – metal products manufacturing **9612**
buggy operator – primary metal processing **9611**
buggy-operator skinner **7421**
buggy-scraper operator **7421**
bugler **5133**
buhr mill operator – food and beverage processing **9461**
builder **0712**
builder and welder, stator and rotor cores – industrial electrical equipment **9485**
builder helper, belts – rubber products manufacturing **9615**
builder, brattice – underground mining **8411**
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building and house wrecker **7611**
building appraiser **1235**
building caretaker **6663**
building carpenter **7271**
building cleaner **6661**
building cleaning and maintenance supervisor **6215**
building cleaning supervisor **6215**
building construction electrician **7241**
building construction estimator **2234**
building construction general contractor **0711**
building construction general manager **0016**
building construction inspector **2264**
building construction superintendent **0711**
building custodian **6663**
building electrician **7241**
building envelope engineer **2131**
building exterior cleaner **6662**
building glass glazier **7292**
building glazier **7292**
building handyman/woman **6663**
building inspector **2264**
building inspector – electrical wiring **2264**
building inspector – structure **2264**
building insulation material installation foreman/woman **7219**
building insulation specialists foreman/woman **7219**
building insulator **7293**
building insulators foreman/woman **7219**
building maintenance head **0721**
building maintenance man/woman **6663**
building maintenance manager **0721**
building maintenance services sales representative **6411**
building maintenance supervisor **7219**
building maintenance worker **6663**
building managing supervisor **1224**
building materials branch director **0711**
building materials technician **2231**
building mover contractor **7217**
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building moving foreman/woman **7217**
building operations manager **0721**
building operator – maintenance **6663**
building painter **7294**
building painter helper **7611**
building safety inspector **2264**
building sander **6662**
building services head **0721**
building services manager **0721**
building services worker **6663**
building space planner **5242**
building superintendent **6663**
building supplies purchasing manager **0113**
building supplies salesperson – retail **6421**
building systems engineer **2132**
building systems erector **7264**
building systems operator **7351**
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building wrecking contractor **7217**
building wrecking foreman/woman **7217**
buildings and bridge engineer **2131**
buildings, vehicles and supplies manager **0114**
built-up flat roofer **7291**
built-up roofer **7291**
bulb planter **8612**
bulk blender – tobacco processing **9464**
bulk cement-blender tender **9411**
bulk goods truck driver **7411**
bulk materials carrier operator **7452**
bulk materials loader operator **7452**
bulk materials unloader **7452**
bulk milk truck driver **7411**
bulker blender – tobacco processing **9464**
bulk-sausage-stuffing machine operator – food and beverage processing **9461**
Bullard multiple-spindle lathe operator **9511**
bulldozer driver **7421**
bulldozer operator **7421**
bullet and cartridge case inspector **9498**
bullet and cartridge inspector **9498**
bullet cutter and former **9516**
bullet lubricant compounder **9613**
bullet maker **9516**
bullet moulder – foundry **9412**
bullet shaper, machine – metal products manufacturing **9516**
bulletin board fabricator **9498**
bulletin board maker **9498**
bullet-shaping machine tender **9516**
bullet-swaging machine adjuster **9516**
bullet-swaging machine setter – metal products manufacturing **9516**
bumper operator, aircraft **9612**
buncher, cigar **9464**
bunching machine operator **9516**
bundle wrapper **9619**
bundler **9619**
bundler, hand **7452**
bungee jump attendant **6671**
bunk skidder operator **8241**

bureau chief – news agency **0512**
burial vault maker, concrete **9414**
burn patient care nurse **3152**
burn unit nursing co-ordinator **3151**
burn unit nursing supervisor **3151**
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burner operator – petroleum **9232**
burner, bricks – clay products **9414**
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burning table operator – metal fabrication **9514**
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burnisher – metalworking **9612**
burnisher operator – footwear manufacturing **9517**
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bus and transport mechanic **7321**
bus and truck floor framer **9486**
bus and truck frame builder **9486**
bus and truck mechanic **7321**
bus and truck repair foreman/woman **7216**
bus assembler **9486**
bus boy/girl **6641**
bus cleaner **6662**
bus company manager **0713**
bus dispatcher **7222**
bus driver **7412**
bus drivers supervisor **7222**
bus information clerk **1453**
bus inspector **7222**
bus inspector-dispatcher **7222**
bus mechanic **7321**
bus parcel express clerk **1461**
bus parts inspector **9486**
bus refueler **6621**
bus schedule information clerk **1453**
bus scheduler **1476**
bus service information clerk **1453**
bus terminal clerk **1441**
bus ticket agent **6434**
bus tour guide **6441**
bus transportation service co-ordinator **1453**
bus washer **6662**
bush pilot **2271**
busher – primary metal processing **9611**
bushing assembler – small transformer manufacturing **9484**
bushing assembler, high voltage transformers **9485**
bushing core winder – industrial electrical equipment **9485**
bushing tender **9619**
business administration professor – university **4121**
business administration teacher – college **4131**
business administration teacher – community college **4131**
business agent, computers **6221**
business agent, labour organization **1121**
business agent, labour union **1121**
business aircraft pilot **2271**
business airplane interior designer **5242**
business analyst – economics **4162**
business analyst, computer systems **2171**
business analyst, informatics **2171**
business and commercial machine assembly supervisor **9222**
business and commercial machines assembly foreman/woman **9222**
business and economics statistician **2161**
business application programmer **2174**
business appraiser **1235**
business association general manager **0014**
business college director **0312**
business college instructor **4131**
business college principal **0313**
business college teacher **4131**
business consultant **1122**
business continuity analyst **2171**
business development director – government services **0412**
business development manager – damage insurance **0121**
business development officer – government **4163**
business documentalist **1452**
business economist **4162**
business editor **5122**
business education teacher **4141**
business equipment sales representative – wholesale **6411**
business establishment investigator – security **6465**
business forms designer **5241**
business forms sales representative **6411**
business general manager **0014**
business issues lobbyist **4163**
business law teacher – business college **4131**
business machine servicer **2242**
business management analyst **1122**
business management consultant **1122**
business manager – manufacturing **0911**

business manager – non-profit organization **0114**
business manager – sales and advertising **0611**
business methods analyst **1122**
business office service representative – telecommunications **1453**
business products designer **2252**
business receptionist **1414**
business re-engineering analyst, systems **2171**
business representative – club, lodge or society **1221**
business representative, labour organization **1121**
business school director **0312**
business school general manager **0014**
business school principal **0312**
business services manager **0123**
business services officer **1221**
business services purchasing officer **1225**
business services sales representative **6411**
business subjects teacher – secondary school **4141**
business subjects teacher – vocational school **4131**
business systems analyst **2171**
business systems specialist – computer systems **2171**
business teacher – secondary school **4141**
business telephone equipment installer and repairer **7246**
business telephone equipment maintainer **7246**
business valuation officer **1235**
business valuator **1235**
busker **5232**
butcher – butcher shop **6251**
butcher – delicatessen **6251**
butcher – retail or wholesale **6251**
butcher – wholesale **6251**
butcher helper – meat processing **9617**
butcher shop clerk **6421**
butcher, industrial **9462**
butcher, retail **6251**
butcher, slaughterhouse **9462**
butler **6683**
butter grader **9465**
butter inspector **2222**
butter maker **9461**
butter packer **9617**
butter sampler **9617**
butter wrapper **9617**
butterfat tester **9465**
button assorter **9619**
button designer and sample maker **9517**
button envelope machine tender **9435**
button finisher **9517**
button machine operator **9517**
button machine setter **9517**
button maker **9517**
button marker **9619**
button press operator **9517**
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buttonhole machine operator **9451**
buttonhole maker **9451**
buttonhole stayer **9451**
button-moulder operator **9517**
buttons inspector **9498**
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buyer – manufacturing and processing **1225**
buyer – purchasing **1225**
buyer – retail **6233**
buyer – wholesale **6233**
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buyer, media time and space **1225**
by-law clerk **1441**
by-law enforcement officer **6463**
by-law enforcement officers supervisor **6463**
by-products extraction foreman/woman – chemical processing **9212**

C

C. Int. (certified interpreter) **5125**
C. Term. (certified terminologist) **5125**
C. Tr. (certified translator) **5125**
CA (chartered accountant) **1111**
CA (chartered accountant) student **1111**
cabin baggage inspector **6651**
cabinet assembler – furniture manufacturing **9492**
cabinet assembler – wood products manufacturing **9492**
cabinet inspector – furniture manufacturing **9492**
cabinet minister **0011**
Cabinet relations director **0414**
Cabinet relations manager **0414**
cabinetmaker **7272**
cabinetmaker apprentice **7272**
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cabinetmaker's helper **7611**
cabinetmaking contractor **7215**
cable armourer **9516**
cable car operator **6671**
cable ferry deckhand **7435**

cable ferry operator **7435**
cable ferry operator, manual **7435**
cable hooker – logging **8616**
cable installation and repair foreman/woman – telecommunications **7212**
cable installation and repair helper – telecommunications **7612**
cable installation contractor **7212**
cable installation foreman/woman **7212**
cable installation supervisor **7212**
cable installer – electric power systems **7244**
cable installer – electrical power **7244**
cable installer – telecommunications **7245**
cable installer and repairer – electric power systems **7244**
cable installer helper **7612**
cable installers and repairers foreman/woman – telecommunications **7212**
cable insulator **9516**
cable insulator helper **9619**
cable jointer – electric power systems **7244**
cable line worker **7612**
cable maintenance and repair supervisor **7212**
cable maker, metal **9516**
cable repair technician – telecommunications **7245**
cable repairer – electric power systems **7244**
cable repairer – telecommunications **7245**
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cable television service installation technician **7247**
cable television service salesperson **6421**
cable television system installers and repairers foreman/woman **7212**
cable television technician **7247**
cable tester – telecommunications **7245**
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cable transfer clerk **1473**
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cable welder **7265**
cable workers front line supervisor **7212**
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cable yarding system operator **8241**
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cable-coding machine tender – electrical equipment manufacturing **9487**
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CAD (computer-aided design) specialist – drafting **2253**
CAD (computer-aided design) technologist **2253**
CAD (computer-assisted drafting) draftsperson – printed circuit boards **2253**
CAD (computer-assisted drafting) technician **2253**
CAD operator **2253**
CAD/CAM (computer-aided design/computer-assisted manufacturing) programmer **2233**
cadastral surveyor **2154**
CAD-CAM/NC (computer-aided design/computer-aided manufacturing/numerical control) programmer **2233**
caddie **6671**
cadet, police **6261**
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cadmium galvanizer **9497**
cadmium leach helper **9611**
cadmium liquor maker **9421**
cadmium plant operator **9411**
cadmium recoverer **9411**
cadmium zinc leacher **9411**
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cafeteria cook **6242**
cafeteria counter attendant **6641**
cafeteria helper **6641**
cafeteria manager **0631**
cafeteria supervisor, food services **6212**
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cake decorator **6252**
cake decorator – retail **6252**
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calèche operator **6441**
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calender let-off operator – rubber products manufacturing **9423**
calender machine operator – rubber products manufacturing **9423**
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calender wind-up tender – rubber products manufacturing **9423**
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calibrator, optical instruments **9498**
calibrator, pressure controllers **7445**
calibrator, scientific instruments **7383**
calibrator, tanks – metal products manufacturing **9612**
calibrator, thermostats – electrical equipment manufacturing **9484**
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call centre agent – technical support **2282**
call centre supervisor **1213**
caller, bingo **6671**
calligrapher **5241**
calligraphic artist **5241**
callisthenics instructor **5254**
camera assembler **9498**
camera assembly inspector **9498**
camera crane operator **5227**
camera equipment salesperson – retail **6421**
camera inspector **9498**
camera operator **5222**
camera operator – graphic arts **9472**
camera operator – printing **9472**
camera operator, colour separation – printing **9472**
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camera operator, photogravure – printing **9472**
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camp cook's helper **6641**
camp co-ordinator – sports and leisure **4167**
camp counsellor **5254**
camp leader **5254**
camp lunchroom attendant **6641**
camp manager **0632**
camp waiter/waitress **6453**
campaign manager **0611**
campground attendant **6671**
campground gate attendant **6671**
campground maintenance worker **6671**
campground manager **0632**
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campground supervisor **6216**
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Canada Mortgage and Housing Corporation (CMHC) inspector **2264**
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Canadian Security Intelligence Service (CSIS) investigator **6261**
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canal lock operator **7435**
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canned goods cooker **9461**
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cannery manager **0911**
cannery packer **9617**
cannery worker – food and beverage processing **9617**
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canoe builder – arts and crafts **5244**
canoe building inspector **9491**
canoe camp operator **0632**
canoe canvasser **9491**
canoe repairer – arts and crafts **5244**
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cant loader – wood processing **9614**
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canteen manager **0631**
canteen service district manager **0631**
canteen services manager **0631**
canteen supervisor **6212**
canter operator – sawmill **9431**
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canvas goods inspector **9454**
canvas goods maker **5245**
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captain waiter/waitress – formal service **6453**
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captain, ferryboat **2273**
captain, fishing vessel **8261**
captain, offshore fishing vessel **8261**
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captain, passenger ship **2273**
captain, self-propelled barge **2273**
captain, self-propelled drilling rig **2273**
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car assignments clerk **1475**
car attendant **6683**
car care worker **6662**
car checker – railway transport **7622**
car controller – railway **7431**
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car dealership manager **0621**
car detailer **6662**
car dispatcher, coal mine **1475**
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car inspector – automobile assembly **9482**
car inspector – railway **7314**
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car leasing branch manager **0621**
car leasing representative **6421**
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car mechanic **7321**
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car rental clerk **6421**
car repairer – railway **7314**
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car retarder operator – railway yard **7431**
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car salesperson – retail **6421**
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car seat assembler **9498**
car stacker – wood processing **9614**
car storage attendant **6683**
car supplier **6672**
car wash attendant **6662**
car wash manager **0651**
car washer **6662**
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carbon brush assembler **9485**
carbon brush inspector **9484**
carbon brush maker **9485**
carbon coater operator **9435**
carbon dioxide truck operator – oil field services **8412**
carbon paper cutter **9435**
carbon paste mixer operator **9421**
carbon planer tender – stone products **9414**
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carbonizer tender – textile manufacturing **9443**
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card fixer – textile manufacturing **7317**
card grinder – textile manufacturing **7317**
card lacer – textiles **9442**
card operator – textile manufacturing **9441**
card reader **6484**
card room supervisor – textiles **9216**
card setter – textile manufacturing **7317**
card shop clerk **6421**
card stripper – textile manufacturing **9441**
card tender – textile manufacturing **9441**
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cardboard box press operator **9435**
cardboard maker – paper converting **9435**
cardboard maker, machine **9435**
cardboard-tube-winding machine operator – paper converting **9435**
carder – textile manufacturing **9441**
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cardiac catheterization technologist **3217**
cardiac sonographer **3216**
cardiac stress technologist **3217**
cardiac surgeon **3111**
cardiac surgery nurse **3152**
cardiac technician **3217**
cardiac ultrasound technician **3216**
cardiac ultrasound technologist **3216**
cardinal **4154**
carding machine cleaner – textile processing **9616**
carding machine feeder – textile manufacturing **9441**
carding machine fixer – textile manufacturing **7317**
carding machine operator – textile manufacturing **9441**
carding machine tender – textile manufacturing **9441**
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cardiology instructor **3217**
cardiology nurse **3152**
cardiology nurse technician **3152**
cardiology specialist **3111**
cardiology supervisor **3217**
cardiology technician **3217**
cardiology technologist **3217**
cardiology technologist – military **3217**
cardiopulmonary technician **3214**
cardiopulmonary technologist **3214**
cardio-pulmonary technologist **3214**
cardiothoracic surgeon **3111**
cardiovascular and thoracic surgeon **3111**
cardiovascular and thoracic surgery specialist **3111**
cardiovascular perfusion clinical instructor **3214**
cardiovascular perfusion instructor **3214**
cardiovascular perfusion supervisor **3214**
cardiovascular perfusion technologist **3214**
cardiovascular perfusionist **3214**
cardiovascular surgeon **3111**
cardiovascular technician **3217**
cardiovascular technologist **3217**
card-tape converter operator **1422**
career agent **5124**
career and life management teacher **4141**
career and technology studies teacher **4141**
career coach **4213**
career counsellor – except education **4213**
career development and employment district director – government services **0411**
career development consultant **4213**
career development counsellor **4213**
career development director – government services **0411**
career development facilitator **4213**
career development practitioner **4213**
career education teacher **4141**
career exploration teacher **4141**
career group facilitator **4213**
career information director – government services **0411**
career resource centre co-ordinator **4213**
caregiver, babysitting **6474**
caretaker, building **6663**
caretaker, live-in **6663**
caretaker, park **8256**
cargo agent – airline **6433**
cargo attendant, air transport **7437**
cargo broker **1236**
cargo customer service representative – airline **6433**
cargo customer service representative – bus line **6434**
cargo customer service representative – marine shipping **6434**
cargo customer service representative – railway **6434**
cargo handler – air transport **7437**
cargo handling supervisor **7217**
cargo loader – air transport **7437**
cargo location clerk **1471**
cargo surveyor **2262**
carhouse supervisor – railway transportation **7216**
caricaturist **5241**
carillonneur **5133**
carman/woman **7314**
carman/woman helper **7612**
carman/woman inspector – railway **7314**
carnallite flux maker **9611**
carousel operator **6671**
carpenter **7271**
carpenter helper **7611**
carpenter lead hand **7271**
carpenter rough **7271**
carpenter supervisor **7215**
carpenter, bridges **7271**
carpenter, building additions **7271**

carpenter, concrete forms **7271**
carpenter, floor systems **7271**
carpenter, framing **7271**
carpenter, houses **7271**
carpenter, interior finish **7271**
carpenter, interior systems **7271**
carpenter, log homes **7271**
carpenter, maintenance **7271**
carpenter, manufactured houses **7271**
carpenter, mill **7271**
carpenter, mine **7271**
carpenter, plant **7271**
carpenter, prefabricated structures **7271**
carpenter, railway rolling stock **7271**
carpenter, renovation **7271**
carpenter, restoration **7271**
carpenter, shipbuilding **7271**
carpenter, studio **7271**
carpenter-contractor **7215**
carpenter-joiner **7271**
carpenters foreman/woman **7215**
carpentry contractor **7215**
carpentry foreman/woman **7215**
carpentry inspector **2264**
carpentry repairman/woman **7271**
carpentry supervisor **7215**
carpet binder **9451**
carpet cleaner **6662**
carpet cleaning service manager **0651**
carpet cleaning supervisor **6215**
carpet drying machine tender – textile manufacturing **9443**
carpet inspector **9444**
carpet installer **7295**
carpet layer **7295**
carpet layer helper **7611**
carpet loom fixer – textile manufacturing **7317**
carpet loom setter – textile manufacturing **7317**
carpet mechanics helper **7611**
carpet sewer **9451**
carpet tape machine tender **9517**
carpet weaver **9442**
carpet-tufting machine operator **9442**
carpet-weaving machine operator **9442**
car-rental counter representative **6421**
carrier operator, bulk materials **7452**
carry-on baggage inspector **6651**
cartage and storage salesperson **6411**
cartage company manager **0713**
cartographer **2255**
cartographic compiler **2255**
cartographic draftsman/woman **2255**
cartographic engineer **2131**
cartographic technician **2255**
cartographic technologist **2255**
carton assembler – paper converting **9435**
carton bander **9617**
carton filler **9619**
carton forming machine operator **9435**
carton gluer **9435**
carton labeller **9619**
carton marker **9619**
carton package stapler **9617**
carton stamper **9619**
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carton-forming machine feeder **9614**
carton-forming machine repairer **7311**
carton-making machine operator **9435**
carton-packaging machine tender – food and beverage processing **9617**
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cartoon embroidery enlarger **5245**
cartoon film artist **5241**
cartoonist **5241**
cartoonist sketch **5241**
cartridge assembler **9498**
cartridge flux maker **9611**
cartridge inspector **9498**
cartridge parts cleaner – explosives and ammunition manufacturing **9612**
cartridge primers drop tester **9516**
cartridge-filler operator **9517**
cartridge-loader machine operator **9517**
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carver operator – woodworking **9513**
carver, granite **9414**
carver, machine – woodworking **9513**
carver, marble – concrete, clay and stone forming **9414**
carver, monuments – stone products **9414**
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case aide – social services **4212**
case assembler and finisher **9498**
case filler **9619**
case hardener – primary metal processing **9411**
case liner **9619**
case maker, hand **5244**
case maker, wood **9493**
case management consultant – social work **4152**
case management social worker **4152**

case management worker – corrections **4155**
case manager – corrections **4155**
case manager occupational therapist **3143**
case marker **9619**
case packer **9619**
case review officer – immigration **1228**
case stacker – food and beverage processing **9617**
case work consultant – social work **4152**
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casework supervisor – social work **4152**
caseworker – social work **4152**
cash coupon clerk **1431**
cash on delivery (COD) clerk **1431**
cash receipts supervisor **1212**
cashier **6611**
cashier supervisor – retail **6211**
cashier, casino **6611**
cashier, currency exchange **6611**
cashier, customer service **6611**
cashier, hotel **6611**
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casing grader – food and beverage processing **9465**
casing machine operator – food and beverage processing **9461**
casing machine operator – tobacco processing **9464**
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casing mixer – tobacco processing **9464**
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casing-in machine tender – printing **9473**
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casket assembler, wood **9492**
casket frame assembler, wood **9493**
casket inspector, wood **9493**
casket liner **9619**
casket maker, wood **9492**
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casket top frame setter, wood **9493**
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caster, concrete mixer **9414**
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cat breeder **8251**
cat operator **7421**
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catalogue agent – wholesale **6411**
catalogue compiler **1452**
catalogue illustrator **5241**
catalogue sales agent – retail **6623**
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cataloguer – museum **5212**
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catalyst operator, gasoline **9232**
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caterer cook **6242**
caterer helper **6641**
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catering service manager **0631**
catering supervisor **6212**
caterpillar car operator **7421**
caterpillar operator **7421**
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cedar shingler **7291**
CEGEP (general and vocational college) teacher **4131**
CEGEP teacher **4131**
ceiling installer **7284**
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cell animator **5241**
cell biologist **2121**
cell operator – primary metal and mineral processing **9411**
cell room operator, chlor-alkali plant **9232**
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cellulose film solutions tester **2211**
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cement block maker – concrete products **9414**
cement block moulder – concrete products **9414**
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cement finisher apprentice **7282**
cement finisher foreman/woman **7219**
cement finisher helper **7611**
cement finishing contractor **7219**
cement gun nozzle operator **7611**
cement gun operator **7611**
cement loader and sacker **7452**
cement manufacturing supervisor **9211**
cement mason **7282**
cement mason apprentice **7282**
cement mason, highways and streets **7282**
cement mason, maintenance **7282**
cement miller **9411**
cement mixer – primary metal and mineral products processing **9411**
cement mixer operator – construction **7611**
cement pipe shaper operator – concrete products **9414**

cement pipe shaper, machine – clay products **9414**
cement plant inspector **9415**
cement polisher **9414**
cement processing foreman/woman **9211**
cement processing supervisor **9211**
cement pump operator **7611**
cement pumping tender **9411**
cement smoother foreman/woman **7219**
cement truck driver – construction **7411**
cement truck driver – oil field services **8412**
cementation equipment operator **9411**
cementer – rubber products manufacturing **9423**
cementer helper, oil well **8615**
cementer operator – rubber products manufacturing **9423**
cementer, hand – rubber and plastic products manufacturing **9615**
cementer, hand – shoe manufacturing **9619**
cementer, knife parts – processing and manufacturing **9619**
cementer, oil field services **8412**
cementer, plastics **9495**
cementer, tire repair – rubber products manufacturing **9615**
cement-filling machine operator – electrical equipment manufacturing **9487**
cementing equipment operator – oil field services **8412**
cemetery foreman/woman **8256**
cemetery labourer **8612**
cemetery manager **0721**
cemetery worker **8612**
census area manager **1213**
census area manager assistant **1213**
census clerk **1454**
census commissioner **1213**
census commissioner assistant **1213**
census district manager **1213**
census enumerator **1454**
census taker **1454**
census worker **1454**
central air conditioner installer **7313**
central air conditioner repairer **7313**
central air conditioning installer **7313**
central air conditioning mechanic **7313**
central air conditioning repairer **7313**
central air conditioning servicer **7313**
central control caster – primary metal processing **9231**
central control operator – cement manufacturing **9231**
central control room operator – primary metal and mineral products processing **9231**
central office repairer – telecommunications **7246**
central office technician – telecommunications **7246**
central office tester – telecommunications **7246**
central service room worker – hospital **3414**
central supply aide – medical **3414**
central supply room supervisor – hospital **3414**
central supply room technician – hospital **3414**
central-control-room operator – electrical power system **7352**
centralized traffic control (CTC) operator – railway traffic **2275**
centralized traffic controller – railway traffic **2275**
central-office equipment inspector – telecommunications **7246**
central-office equipment installer – telecommunications **7246**
central-office equipment maintainer – telecommunications **7246**
central-office equipment repairer – telecommunications **7246**
central-office frame servicer – telecommunications **7246**
central-office power control room operator – electrical power system **7352**
centre assistant manager – hotel school **0312**
centre winder, baseballs **9517**
centreless cylindrical grinder set-up operator **9511**
centreless cylindrical-grinder operator **9511**
centreless grinder operator **9511**
centreless grinder set-up operator **9511**
centri-cleaner tender – pulp and paper **9432**
centrifugal casting machine operator **9412**
centrifugal casting machine tender – foundry **9412**
centrifugal extractor – textile manufacturing **9443**
centrifugal separator tender – chemical processing **9421**
centrifugal station tender – food and beverage processing **9461**
centrifuge machine tender – fish processing **9463**
centrifuge operator – textile manufacturing **9443**
centrifuge tender – chemical processing **9421**
centrifuge tender – food and beverage processing **9617**
centrifuge tender – meat packing plant **9617**

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CEO (chief executive officer), travel agency **0015**
ceramic and enamel refinisher **9496**
ceramic artist **5244**
ceramic caster, dentures **3223**
ceramic denture caster **3223**
ceramic denture mechanic **3223**
ceramic denture mechanic-moulder **3223**
ceramic denture moulder **3223**
ceramic enameler **9496**
ceramic moulder, dentures **3223**
ceramic mouldmaker **9412**
ceramic mouldmaker – foundry **9412**
ceramic painter **9496**
ceramic potter **5244**
ceramic spray painter **9496**
ceramic sprayer **9496**
ceramic tile installer **7283**
ceramic tile press operator – concrete products **9414**
ceramic tilesetter **7283**
ceramics and glass conservator **5112**
ceramics engineer **2142**
ceramics teacher (except education) **5244**
ceramist **5244**
cereal and oilseed grower **8251**
cereal and oilseed producer **8251**
cereal baker – food and beverage processing **9461**
cereal cleaner **9461**
cereal cooker and extruder operator **9461**
cereal farm manager **8251**
cereal grower **8251**
cereal maker – food and beverage processing **9461**
cereal oven tender **9461**
cereal producer **8251**
cereal-cleaning equipment operator **9461**
cereal-coating operator **9461**
cerlox binder operator – printing **9473**
certified aircraft technician **7315**
certified athletic therapist (CAT) **3144**
certified audiologist **3141**
certified avionics technician **2244**
certified clinical perfusionist (CCP) **3214**
certified dental assistant **3411**
certified dental technician **3223**
certified disability management professional **1121**
certified dog master **6483**
certified ergonomist **4161**
certified fitness appraiser **4167**
certified general accountant (CGA) **1111**
certified hearing aid audiologist **3141**
certified industrial hygienist **4161**
certified interior designer **5242**
certified interpreter (C.Int.) **5125**
certified intra-oral dental assistant **3411**
certified iridologist **3232**
certified load control agent – airline **6433**
certified load planner – airline **6433**
certified management accountant (CMA) **1111**
certified management consultant **1122**
certified nursing assistant (CNA) **3233**
certified orthotist (CO) **3219**
certified pedorthist (Cped) **3219**
certified prosthetist **3219**
certified prosthetist-orthotist (CPO) **3219**
certified reflexologist **3232**
certified return-to-work co-ordinator – disability management **4212**
certified return-to-work facilitator – disability management **4212**
certified rolfer **3232**
certified rolfing movement teacher **3232**
certified social worker **4152**
certified terminologist (C.Term.) **5125**
certified translator (C.Tr.) **5125**
cesspool cleaner **6662**
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CFO (chief financial officer) – urban transit system **0016**
CFO (chief financial officer), educational institution **0014**
CFO (chief financial officer), professional sports club **0015**
CGA (certified general accountant) **1111**
chafer builder **9423**
chain builder – textiles **9442**
chain conveyor tender – sawmill **9614**
chain conveyor tender – wood processing **9614**
chain inspector **9516**
chain link fence erector **7441**
chain maker, hand – jewellery manufacturing **9498**
chain maker, machine **9516**
chain making machine operator **9516**
chain making machine tender **9516**
chain saw operator – logging **8421**
chain tester **9516**
chain tester, machine **9516**
chainer – textile processing **9616**
chain-link fence machine operator **9516**
chain-making machine feeder **9516**
chainman/woman – land surveying **7612**
chainman/woman – textiles **9442**
chainman/woman – wood processing **9614**
chainman/woman, pile driving **7611**
chain-testing machine tender **9516**
chair assembler **9492**
chair assembly foreman/woman – furniture and fixtures manufacturing **9224**
chair caner – furniture manufacturing **9492**
chair inspector – furniture manufacturing **9492**
chair leveler – woodworking **9513**
chair sander **9619**
chair seat planer tender **9513**
chair seat weaver **9492**
chair trimmer **9619**
chair upholsterer **7341**
chair, metropolitan council **0011**
chair, regional municipality **0011**
chairman/woman – financial, communications and other business services **0013**
chairman/woman – government services **0012**
chairman/woman – health, education, social and community services and membership organizations **0014**
chairman/woman – trade, broadcasting and other services **0015**
chairman/woman, food sciences department – university **4121**
chairman/woman, geography department – university **4121**
chairman/woman, linguistics department – university **4121**
chairman/woman, physics department – university **4121**
chairman/woman, theology department – university **4121**
chairman/woman, trades programs department – college **4131**
chairman/woman, visual arts department – university **4121**
chairperson – financial, communications and other business services **0013**
chairperson – government services **0012**
chairperson – health, education, social and community services and membership organizations **0014**
chairperson – trade, broadcasting and other services **0015**
chairperson, arts and culture association **0014**
chairperson, educators association **0014**
chairperson, food sciences department – university **4121**
chairperson, geography department – university **4121**
chairperson, Human Rights Commission **0012**
chairperson, linguistics department – university **4121**
chairperson, physics department – university **4121**
chairperson, scientific association **0014**
chairperson, theology department – university **4121**
chairperson, trades programs department – college **4131**
chairperson, visual arts department – university **4121**
chalk extruder **9611**
chalk moulder – mineral products processing **9611**
Chamber of Commerce administrator **0314**
chambermaid **6661**
chamfering and boring machine operator – metal products manufacturing **9516**
chamfering machine tender **9516**
chancellor – education **0014**
chancellor – religion **4154**
chandelier maker **9516**
changer, plates – plastic manufacturing **9495**
channel closer – shoe manufacturing **9619**
channel furnace operator – foundry **9412**

channeler – footwear manufacturing **9517**
chansonnier **5132**
chaplain **4154**
chaplain – military **4154**
char filter helper – food and beverage processing **9617**
char filter tender – food and beverage processing **9461**
char kiln helper – food and beverage processing **9617**
char kiln tender – food and beverage processing **9461**
char puller – food and beverage processing **9617**
character animator **5241**
charcoal artist **5136**
charcoal burner **9421**
charge account audit clerk **1431**
charge account clerk **1431**
charge control operator **9411**
charge hand, machine fitters **7316**
charge hand, machine shop **7231**
charge operator – telephone system **1424**
charge technologist – autopsy services **3211**
charge technologist – electrocardiography **3217**
charge weigher – primary metal processing **9611**
charger – electrical equipment manufacturing **9487**
charger – jewellery manufacturing **9498**
charger helper – primary metal processing **9611**
charger operator – electrical equipment manufacturing **9487**
charger, cupola – primary metal and mineral processing **9611**
charger, furnace – primary metal processing **9611**
charger, thermometric systems capillary tubes **9498**
charging car operator **9411**
charging equipment attendant – telecommunications **7246**
charging machine operator – mineral and metal processing **9411**
charging room operator – electrical equipment manufacturing **9487**
charitable organization director **0014**
charitable organization executive director **0014**
charm course instructor **4216**
chart clerk **1454**
charter boat captain **7436**
charter boat master **7436**
charter boat operator **7436**
charter bus driver **7412**
charter pilot **2271**
chartered accountant (CA) **1111**
chartered accountant (CA) student **1111**
chartered administrator – management **0114**
chartered business valuator (CBV) **1235**
chartered financial analyst **1112**
chartered herbalist **3232**
chartered psychologist **4151**
chartered secretary – management **0114**
chartered ship broker **1236**
charworker **6661**
chaser – logging **8421**
chaser, jewellery **7344**
chassis assembler – electronic equipment manufacturing **9483**
chassis assembler – motor vehicle manufacturing **9482**
chassis assembly inspector – motor vehicle manufacturing **9482**
chassis assembly supervisor – motor vehicle manufacturing **9221**
chassis inspector – motor vehicle manufacturing **9482**
chassis installer – electronic equipment manufacturing **9483**
chat line agent **6484**
chauffeur **7413**
chauffeur, private household **7413**
chauffeurs and taxi drivers supervisor **7222**
chauffeurs supervisor **7222**
check pilot **2271**
check weigher, mine **8614**
checker – laundry and dry cleaning **6681**
checker, attendance **6671**
checker, drafting **2253**
checkerer, gunstocks **9513**
checkerer, small arms **9513**
checkerman/woman, fishing vessel **8441**
check-in agent – airline **6433**
check-in agent (except airline) **6434**
checkroom attendant **6683**
cheese blender – food and beverage processing **9461**
cheese cooker **9461**
cheese cutter **9617**
cheese factory worker **9617**
cheese grader **9465**
cheese grater **9461**
cheese maker **9461**
cheese maker helper **9617**
chef **6241**
chef de cuisine **6241**
chef de partie – cuisine **6241**

chef pâtissier **6241**
chemical analysis specialist **2211**
chemical analyst **2211**
chemical applicator – lawn care **8612**
chemical engineer **2134**
chemical engineer, design and development **2134**
chemical engineer, environmental **2134**
chemical engineer, production **2134**
chemical engineer, research **2134**
chemical engineering professor – university **4121**
chemical engineering technician **2211**
chemical engineering technologist **2211**
chemical laboratory analyst **2211**
chemical laboratory supervisor **2211**
chemical laboratory technician **2211**
chemical laboratory technologist **2211**
chemical liquor preparation operator – pulp and paper **9432**
chemical manager **0212**
chemical mixer – photographic processing **9474**
chemical oceanographer **2113**
chemical operator, chemical-processing **9421**
chemical physicist **2111**
chemical plant labourer **9613**
chemical plant machine operator **9421**
chemical plant service mechanic **7311**
chemical process analyst **2211**
chemical process engineer **2134**
chemical process equipment mechanic **7311**
chemical process equipment mechanic helper **7612**
chemical process operator **9232**
chemical process technologist **2211**
chemical process unit operator **9232**
chemical processing plant foreman/woman **9212**
chemical processing quality control technician **2211**
chemical processing quality control technologist **2211**
chemical processing supervisor **9212**
chemical products quality control technologist **2211**
chemical pulping plant operator – pulp and paper **9432**
chemical research division manager **0212**
chemical research technician **2211**
chemical research technologist **2211**
chemical roaster **9232**
chemical services operator – oil field services **8412**
chemical solutions operator – pulp and paper **9432**
chemical spectroscopist **2112**
chemical technician **2211**
chemical technician – heavy water plant and nuclear generating station **2211**
chemical technician, NMR (nuclear magnetic resonance) **2211**
chemical technician, nuclear magnetic resonance (NMR) **2211**
chemical technologist **2211**
chemical technology teacher – vocational institute **4131**
chemical truck operator – oil field services **8412**
chemical unit foreman/woman **9212**
chemical-processing machine builder **7316**
chemicals sales representative **6221**
chemist **2112**
chemistry professor – university **4121**
chemistry research scientist **2112**
chemistry researcher **2112**
chemistry statistician **2161**
chemistry teacher – agricultural school **4131**
chemistry teacher – secondary school **4141**
chemi-thermomechanical pulp (CTMP) machine assistant operator **9432**
chemi-thermomechanical pulp (CTMP) operator **9233**
chemi-wash operator – pulp and paper **9432**
chenille tender – textile manufacturing **9443**
cheque control clerk **1431**
chess instructor **5254**
chewing gum batch mixer **9617**
chewing gum supply worker **9617**
chewing-gum machine tender **9461**
chick sexer **8431**
chicken catcher **8431**
chicken farmer **8251**
chicken plucker **9462**
chicle centrifuge operator – food and beverage processing **9461**
chicle-grinder feeder – food and beverage processing **9617**
chief – disaster management **0012**
chief accountant **1111**
chief actuary **0212**
chief administrative officer – government services **0012**
chief administrative officer – regional municipality **0012**
chief administrator, leisure **0513**
chief administrator, recreation **0513**
chief air traffic controller **2272**
chief aircraft maintenance engineer (AME) **7216**

chief ambulance attendant **3234**
chief AME (aircraft maintenance engineer) **7216**
chief architect **2151**
chief archivist **0511**
chief buyer – retail or wholesale **6233**
chief canvasser – retail **6211**
chief chemical engineer **2134**
chief civil engineer **2131**
chief clerk, House of Commons **0314**
chief cruiser **2223**
chief curator **0511**
chief deputy sheriff **6461**
chief detective – police **0641**
chief diagnostic medical sonographer **3216**
chief dietitian **0311**
chief display officer – museum **5212**
chief draftsperson **2253**
chief electoral officer **0012**
chief electrical engineer **2133**
chief electrician **7212**
chief electroencephalograph technologist **3218**
chief electromyography (EMG) technologist **3218**
chief electronics engineer **2133**
chief EMG (electromyography) technologist **3218**
chief engineer – electric power **2133**
chief engineer – radio and television broadcasting **2133**
chief engineer – water transport **2274**
chief engineer, Coast Guard vessel **2274**
chief engineer, drilling and recovery **2145**
chief engineer, fishing vessel **2274**
chief engineer, mobile platform – offshore drilling **2274**
chief engineer, self-propelled drilling rig **2274**
chief estimator – construction **2234**
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chief exhibit officer – museum **5212**
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chief financial officer (CFO), professional sports club **0015**
chief flotation operator **9231**
chief flying instructor **2271**
chief host/hostess – food services **6451**
chief inspector – police **0641**
chief justice **4111**
chief librarian **0511**
chief lighting technician **5226**
chief marine engineer – water transport **2274**
chief marine engineer, factory freezer trawler **2274**
chief mechanical engineer **2132**
chief of anatomical pathology **0311**
chief of anesthesia **0311**
chief of audiology and speech language pathology **0311**
chief of biomedical engineering service **0311**
chief of cardiology **0311**
chief of compensation and human resources information systems **1121**
chief of dermatology **0311**
chief of diagnostic imaging **0311**
chief of diagnostic radiology **0311**
chief of emergency medicine **0311**
chief of endocrinology **0311**
chief of gastro-enterology **0311**
chief of hematology **0311**
chief of housing activities **0311**
chief of infectious diseases **0311**
chief of laboratory medicine **0311**
chief of medical staff **0311**
chief of medicine **0311**
chief of nephrology **0311**
chief of neurology **0311**

chief of obstetrics and gynecology **0311**
chief of occupational therapy **0311**
chief of operating area **0311**
chief of ophthalmology **0311**
chief of pathology **0311**
chief of pediatrics **0311**
chief of pharmacy **0311**
chief of physiotherapy **0311**
chief of police **0641**
chief of property management **1224**
chief of protocol **0414**
chief of psychiatry **0311**
chief of psychology **0311**
chief of radiation oncology **0311**
chief of respirology **0311**
chief of rheumatology **0311**
chief of staff – hospital **0311**
chief of surgery **0311**
chief of urology **0311**
chief officer, Coast Guard vessel **2273**
chief officer, ship **2273**
chief officer, ship operations **2273**
chief operating officer – engineering firm **0013**
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chief operator – chemical processing **9232**
chief operator – zinc pressure leach **9231**
chief operator, area dispatch **7352**
chief operator, area dispatch – electric power systems **7352**
chief operator, batching process **9232**
chief operator, continuous process **9232**
chief operator, hydro-electric station **9212**
chief operator, synthesis **9232**
chief operator, water treatment **9212**
chief orthoptist **3123**
chief pathologist's assistant **3211**
chief perfusionist **3214**
chief petroleum engineer **2145**
chief photographer **5221**
chief pilot – air transport **2271**
chief pilot, helicopter **2271**
chief preparator **5212**
chief preparator – museums and art galleries **5212**
chief process engineer **2134**
chief radiographer **3215**
chief radiology technologist **0311**
chief radiotherapy technologist **3215**
chief rail traffic controller **2275**
chief respiratory technologist **3214**
chief scaler **2223**
chief security guard **6216**
chief sheriff **6461**
chief stage electrician **5226**
chief stationary engineer **9212**
chief statistician – government services **0012**
chief steward, ship **6432**
chief substation operator **9212**
chief superintendent – police **0641**
chief superintendent – schools **0313**
chief technician, chemical processing **9232**
chief technician, lighting effects **5226**
chief technologist, electroencephalograph **3218**
chief technologist, electromyography (EMG) **3218**
chief technologist, EMG (electromyography) **3218**
chief technologist, nuclear medicine **3215**
chief technologist, radiation therapy **3215**
chief technologist, radiography **3215**
chief telephone operator **1424**
chief train dispatcher **2275**
chief wine steward **6453**
chief, accounting and financial control **0111**
chief, administrative services **0114**
chief, advertising illustrator **5241**
chief, archives **0511**
chief, bilateral relations **0414**
chief, biological research department **0212**
chief, claims and benefits control – employment insurance **0411**
chief, classification and compensation **0112**
chief, economic analysis – government services **0412**
chief, economic policy analysis – government services **0412**
chief, employment equity **0112**
chief, federal-provincial relations **0414**
chief, financial and administrative services **0114**
chief, fire department **0642**
chief, First Nations band **0011**
chief, forest resource analysis – government services **0412**
chief, health information and promotion – government services **0411**

chief, health promotion – government services **0411**
chief, immigration appeals and litigation – government services **0411**
chief, inquiries and services – employment insurance **0411**
chief, intergovernmental affairs **0414**
chief, intergovernmental relations **0414**
chief, international relations – government **0414**
chief, interprovincial relations **0414**
chief, labour demand analysis – government services **0411**
chief, legal department **0114**
chief, maintenance support services **0721**
chief, management services division **0114**
chief, office of health promotion – government services **0411**
chief, official languages **0112**
chief, personnel **0112**
chief, purchasing **0113**
chief, railway police **0641**
chief, regional pay centre – employment insurance **0411**
chief, repayment and benefits control – employment insurance **0411**
chief, respiratory therapy **3214**
chief, social development programs – government services **0411**
chief, social programs development – government services **0411**
chief, staff relations **0112**
chief, staff training and development **0112**
chief, staffing **0112**
chief, training **0112**
child and family counsellor **4153**
child and youth counsellor **4153**
child and youth worker **4212**
child caregiver – private home **6474**
child health care programs planning officer **4165**
child psychologist **4151**
child specialist **3111**
child welfare policy analyst **4164**
child welfare regional manager – government services **0411**
child welfare services administrator **0314**
child welfare services manager – government services **0411**
child welfare social worker **4152**
child welfare worker **4212**
child-care attendant – elementary school **6472**
child-care programs planning officer **4164**
child-care provider – private home **6474**
child-care service teacher – college **4131**
child-care service teacher – community college **4131**
child-care services liaison officer **4164**
child-care worker – day care **4214**
child-care worker (except day care) **4212**
child-care worker assistant **4214**
child-care worker, day care **4214**
children's aid investigator **4152**
children's aid society director **0314**
children's clothing sales clerk **6421**
children's counsellor **4153**
children's nurse – private households **6474**
children's services librarian **5111**
children's wear sales clerk **6421**
children's wear salesperson – retail **6421**
chiller operator – chemical processing **9421**
chiller tender – chemical processing **9421**
chilling worker – food and beverage processing **9617**
chimney bricklayer **7281**
chimney cleaner **6662**
chimney repair bricklayer **7281**
chimney repair stonemason **7281**
chimney sweep **6662**
china and crystal salesperson – retail **6421**
Chinese medical practitioner **3232**
Chinese medicine doctor (CMD) **3232**
chip bin attendant – wood processing **9614**
chip dump operator – wood processing **9614**
chip reclaim operator – sawmill **9431**
chip screen tender – wood processing **9434**
chip silo attendant – wood processing **9614**
chip storage attendant – wood processing **9614**
chip-mixing machine tender – wood processing **9434**
Chip-N-Saw operator – sawmill **9431**
chipper – metal products manufacturing **9612**
chipper operator – wood processing **9434**
chipper, pottery and porcelain **9414**
chipper-grinder – metal products manufacturing **9612**
chipping machine operator **8241**
chipping machine operator – logging **8241**
chiropodist **3123**
chiropractic aide **3414**
chiropractic assistant **3414**
chiropractic doctor **3122**
chiropractic health assistant **3414**
chiropractic office assistant **3414**
chiropractor **3122**
chiropractor aide **3414**

chisel grinder – metal products manufacturing **9612**
chlorination plant operator **9232**
chlorine plant foreman/woman **9212**
chlorine plant operator **9232**
chocolate chips maker **9461**
chocolate coater – food and beverage processing **9461**
chocolate crumbs maker **9461**
chocolate factory foreman/woman **9213**
chocolate moulder, machine **9461**
chocolate packer, hand **9617**
chocolate processing helper **9617**
chocolate refiner **9461**
chocolate refining foreman/woman **9213**
chocolate temperer **9461**
choir director **5132**
choir leader **5132**
choirmaster **5132**
choke setter – logging **8616**
choke winder – electronic equipment manufacturing **9483**
chokerman/woman – logging **8616**
chopping machine tender **9441**
choral conductor **5132**
choral director **5132**
chore hand – agriculture **8431**
choreographer **5131**
chorister **5133**
chorus dancer **5134**
chorus master **5132**
Christian Science nurse – non-medical **4217**
Christian science practitioner **4217**
Christian science worker **4217**
Christmas tree farm operator **8254**
Christmas tree shearer **8432**
Christmas tree trimmer **8432**
chromium plater **9497**
chronicler **5123**
chub sausage machine tender **9461**
chucking and boring machine operator – woodworking **9513**
chucking machine operator – woodworking **9513**
chucking machine set-up operator **9511**
chuckwagon driver **5251**
chuckwagon racer – stampede **5251**
church caretaker **6663**
church organist **5133**
church secretary **1241**
church worker **4217**
churn drill operator – water well drilling **7373**
churn drill operator helper – water well **7611**
chute blaster **8231**
chute blaster – underground mining **8231**
chute loader – underground mining **8411**
chute operator – underground mining **8411**
chute puller **8614**
cider maker **9461**
cider plant worker **9461**
cigar bander **9617**
cigar brander **9617**
cigar bunch maker **9464**
cigar buncher **9464**
cigar dryer **9464**
cigar filler, mixer and shredder **9464**
cigar grader **9465**
cigar maker **9464**
cigar maker, hand **9464**
cigar maker, machine **9464**
cigar moulder, hand **9464**
cigar patcher **9464**
cigar roller, hand **9464**
cigar wrapper **9617**
cigarette case maker **9498**
cigarette filter machine tender **9464**
cigarette grader **9465**
cigarette holder maker **9498**
cigarette machine tender **9464**
cigarette maker **9464**
cigarette maker operator **9464**
cigarette packer **9617**
cigarette roller **9464**
cigarette shell-and-slide packet-making machine adjuster **7311**
cigarette stamper **9464**
cigarette tester **9465**
cigarette tipper **9464**
cigarette vendor **6623**
cigarette-making machine adjuster **7311**
cigar-wrapping machine tender **9617**
CIM (computer integrated manufacturing) engineer **2141**
cinder block machine operator – concrete products **9414**
cinder block mason **7281**
cinder block setter **7281**
cinder crane operator **7371**
cinematographer **5131**
cipher expert **2161**
cipher expert – military **2161**
circuit board assembler **9483**
circuit breaker assembler **9484**
circuit breaker assembly tester **9484**

circuit breaker fitter – industrial electrical equipment **9485**
circuit breaker mechanic **7333**
circuit design engineer **2133**
circuit designer – railway **2241**
circular distributor – courier service **1463**
circular knitter **9442**
circular knitting machine knitter **9442**
circular saw filer **7383**
circular saw operator – concrete, clay and stone products **9414**
circular saw operator – sawmill **9431**
circular saw operator – woodworking **9513**
circulating nurse **3152**
circulation assistant – library **5211**
circulation clerk – library **1451**
circulation clerk, newspaper **1452**
circulation manager **0611**
circus artist **5232**
circus performer **5232**
circus rigger **5227**
circus ringmaster **5231**
citizenship judge **1227**
citizenship officer **4164**
citizenship registration examiner **1228**
citrus juice extractor **9461**
city administrator **0012**
city alderman **0011**
city attorney **4112**
city councillor **0011**
city councilman/woman **0011**
city editor **5122**
city hall clerk **0012**
city manager **0012**
city medical officer of health – government services **0411**
city planner **2153**
city planner – land use **2153**
city solicitor **4112**
city superintendent **0012**
city surveyor **2154**
civil aviation medical officer **3112**
civil draftsperson **2253**
civil emergency measures officer **1221**
civil engineer **2131**
civil engineering design technologist **2231**
civil engineering division manager **0211**
civil engineering professor – university **4121**
civil engineering studies technologist **2231**
civil engineering technician **2231**
civil engineering technologist **2231**
civil inspection engineer **2131**
civil lawyer **4112**
cladder **7441**
cladding assembler – primary metal processing **9611**
claim attorney **4112**
claim clerk, lost or damaged goods **1453**
claims accountant **1111**
claims adjudication officer – employment insurance **1228**
claims adjudicator – employment insurance **1228**
claims adjuster – insurance **1233**
claims adjusters supervisor **1212**
claims and benefits control chief – employment insurance **0411**
claims approver – insurance **1233**
claims clerk – customer service **1453**
claims clerk – insurance **1434**
claims collector **1435**
claims consultant **1233**
claims examiner – insurance **1233**
claims investigator **1233**
claims investigator – insurance **1233**
claims manager – insurance company **1121**
claims officer **1221**
claims processing officer – immigration **1228**
claims representative **1233**
claims representative – insurance **1233**
claims service supervisor **1211**
clairvoyant **6484**
clam digger **8613**
clam dredge operator **8262**
clam fisherman/woman **8262**
clam shucker – fish processing **9463**
clam steamer – fish processing **9463**
clamp carrier **9493**
clamp remover – wood products manufacturing **9619**
clamper – camera and platemaking **9472**
clamper – construction **7611**
clamper, transformer assembly **9485**
clamper, transformer assembly coils **9485**
clamping machine tender – woodworking **9513**
clam-shucking machine tender – fish processing **9463**
clarifying equipment tender – food and beverage processing **9461**
classical dance instructor **5134**
classical dancer **5134**
classical languages secondary school teacher **4141**
classics professor – university **4121**
classification and compensation chief **0112**

classification clerk **1413**
classification clerk – human resources **1442**
classification clerk, records **1413**
classification counsellor – corrections **4155**
classification officer – human resources **1121**
classification officer, correctional institutions **4155**
classification policy adviser **1121**
classification specialist **1121**
classified ad salesperson **6411**
classified advertising clerk **1452**
classifier – library **5111**
classifier helper – primary metal and mineral products processing **9611**
classifier operator **9411**
classifier, health records **1413**
classifier, records **1413**
clay dry press operator **9414**
clay insulator builder – clay products **9414**
clay modeller **5136**
clay pipe bender **9414**
clay preparation foreman/woman **9211**
clay press operator **9414**
clay press worker **9611**
clay products finisher **9611**
clay products grader **9415**
clay products machine operator **9414**
clay products manufacturing foreman/woman **9211**
clay products moulder **9414**
clay products moulder, hand **9414**
clay products polisher **9414**
clay shop foreman/woman **9211**
clay structure moulder and installer **9414**
clay temperer – clay products **9414**
clay tile grader – mineral products processing **9415**
clay, glass and stone furnace and kiln operations foreman/woman **9211**
clay, glass and stone furnace and kiln operators supervisor **9211**
clayware driller **9414**
clayware turner **9414**
claywork moulder **9414**
cleaner **6661**
cleaner – laundry and dry cleaning **6681**
cleaner and cutter, fish – fish processing **9463**
cleaner and finisher, upholstery **9619**
cleaner and presser – laundry and dry cleaning **6681**
cleaner and repairer, venetian blinds **6662**
cleaner, brick and tile kilns **9611**
cleaner, building exteriors **6662**
cleaner, carpets **6662**
cleaner, castings – primary metal and mineral products processing **9611**
cleaner, chimneys **6662**
cleaner, drain-roto **6662**
cleaner, filter – chemical processing **9613**
cleaner, fireplaces **6662**
cleaner, freight cars **6662**
cleaner, furnace **6662**
cleaner, heavy duty **6663**
cleaner, hospital **6661**
cleaner, industrial plant **6663**
cleaner, ink fountains – printing **9619**
cleaner, jewellery **9517**
cleaner, laboratory equipment **6662**
cleaner, light duty **6661**
cleaner, lodge **6661**
cleaner, metal – metal products manufacturing **9612**
cleaner, moulds – foundry **9612**
cleaner, moulds – rubber products manufacturing **9615**
cleaner, plant **6663**
cleaner, porcelain enamel products **9619**
cleaner, poultry yard **8431**
cleaner, processing equipment **9619**
cleaner, rest rooms **6661**
cleaner, rooms **6661**
cleaner, rugs **6662**
cleaner, septic tank **6662**
cleaner, soaking pit bottom – primary metal processing **9611**
cleaner, spray booths **9619**
cleaner, still – chemical processing **9613**
cleaner, swimming pool **6662**
cleaner, tank **6662**
cleaner, textile machines **9616**
cleaner, tires – rubber products manufacturing **9615**
cleaner, vehicle **6662**
cleaner, ventilation system **6662**
cleaner, window **6662**
cleaner-coater, vehicles **9496**
cleaner-dryer, grain – food and beverage processing **9461**
cleaning and classifying operator – tobacco processing **9464**
cleaning and maintenance supervisor **6215**
cleaning compounds mixer **9421**
cleaning lady **6661**

cleaning machine operator – laundry and dry cleaning **6681**
cleaning machine tender, ultrasonic **9517**
cleaning man/woman **6661**
cleaning products salesperson – door-to-door sales **6623**
cleaning service general manager **0015**
cleaning services sales representative **6411**
cleaning supervisor **6215**
clean-up crew worker **6661**
clean-up sander – woodworking **9513**
clearance diver **7382**
clearance diving technician – military **6464**
clearing saw operator – forestry **8422**
cleat notcher – woodworking **9513**
clemency officer – corrections **4155**
clergyman/woman **4154**
clerical assistant **1411**
clerical supervisor **1211**
clerk – financial sector **1434**
Clerk – Legislative Assembly **0414**
clerk of probate **1227**
clerk of proceedings – courts **1227**
clerk of process – courts **1443**
clerk of scales – racetrack **5253**
clerk of the committee, Legislative Assembly **0414**
clerk of the course – harness racing **5253**
clerk of the course – horseback racing **5253**
clerk of the course – racetrack **5253**
clerk of the court **1227**
clerk of the Crown – courts **1227**
clerk of the House of Commons **0012**
Clerk of the Legislative Assembly **0414**
Clerk of the Privy Council **0012**
clerk switchboard operator **1414**
clerk, aircraft records **1413**
clerk, bakery counter **6421**
clerk, bookings – railway **6434**
clerk, bookings – wholesale travel **6434**
clerk, bookings (except airline) **6434**
clerk, cable transfer **1473**
clerk, classification **1413**
clerk, court **1443**
clerk, customer service **1453**
clerk, deli counter **6421**
clerk, eyeglasses **1472**
clerk, front desk – hotel **6435**
clerk, front office – hotel **6435**
clerk, general office **1411**
clerk, hospital admissions **1414**
clerk, hospital records **1413**
clerk, hotel **6435**
clerk, hotel front desk **6435**
clerk, law **4211**
clerk, library **1451**
clerk, mail **1461**
clerk, mail – railway transport **1461**
clerk, mail distribution **1461**
clerk, mail room **1461**
clerk, maintenance service **1453**
clerk, meat counter **6421**
clerk, meter records **1413**
clerk, night – hotel **6435**
clerk, post office **1461**
clerk, records **1413**
clerk, records classification **1413**
clerk, records management **1413**
clerk, reservations – airline **6433**
clerk, reservations – cruise line **6434**
clerk, reservations – hotel **6435**
clerk, reservations – railway **6434**
clerk, reservations – wholesale travel **6434**
clerk, reservations (except airline) **6434**
clerk, retail sales **6421**
clerk, room – hotel **6435**
clerk, shipping – railway transport **1461**
clerk, stowage **6434**
clerk, supermarket **6622**
clerk, Supreme Court **1227**
clerk, technical records **1413**
clerk-crier, court **1443**
clerks supervisor – bank or financial institution **1212**
clerk-stenographer **1411**
clerk-typist **1411**
client care attendant – home care **6471**
client group supervisor **1122**
client service clerk **1453**
client service representative – airline **6433**
client service representative – bus line **6434**
client support representative – systems **2282**
climate data processor **2213**
climate service specialist **2213**
climate service technician **2213**
climatological technician **2213**
climatologist **2114**
climbing crane operator **7371**
climbing tower crane operator **7371**
clinic assistant – medical **3414**
clinic nurse **3152**
clinical assistant **3414**
clinical audiologist **3141**
clinical biomedical engineer **2148**

clinical chemist **2112**
clinical co-ordinator, nuclear medicine **3215**
clinical co-ordinator, physical therapy **3142**
clinical co-ordinator, physiotherapy **3142**
clinical co-ordinator, radiation therapy **3215**
clinical co-ordinator, radiography **3215**
clinical counsellor **4153**
clinical dietitian **3132**
clinical hypnotherapist **3232**
clinical immunologist **3111**
clinical immunologist-allergist **3111**
clinical immunology and allergy specialist **3111**
clinical immunology technologist **3211**
clinical instructor, cardiovascular perfusion **3214**
clinical instructor, clinical perfusion **3214**
clinical instructor, nuclear medicine **3215**
clinical instructor, radiation therapy **3215**
clinical instructor, radiography **3215**
clinical instructor, respiratory therapy **3214**
clinical laboratory helper **3414**
clinical laboratory technician **3212**
clinical laboratory technologist **3211**
clinical medicine, director of **0311**
clinical nurse **3152**
clinical nurse specialist **3152**
clinical nutritionist **3132**
clinical occupational therapist **3143**
clinical occupational therapy specialist **3143**
clinical orthoptist **3123**
clinical pathologist **3111**
clinical perfusion clinical instructor **3214**
clinical perfusion supervisor **3214**
clinical perfusionist **3214**
clinical pharmacist **3131**
clinical pharmacologist **3111**
clinical physical therapist **3142**
clinical physiotherapist **3142**
clinical projects manager **0212**
clinical psychologist **4151**
clinical research associate **4165**
clinical research program manager **4165**
clinical services manager **0311**
clinical trials co-ordinator **4165**
clip-loading machine feeder **9619**
clipper operator – wood processing **9434**
clipping machine tender **9443**
clipping marker **1452**
cloakroom attendant **6683**
clock and timer movement automated line
  assembler **9498**
clock and watch assembler **9498**
clock and watch assembly foreman/woman **9227**
clock and watch assembly inspector **9498**
clock and watch assembly repairers
  foreman/woman **9227**
clock and watch assembly repairers
  supervisor **9227**
clock and watch assembly supervisor **9227**
clock and watch dial installer **9498**
clock and watch finisher **9498**
clock and watch hairspring truer **9498**
clock and watch inspection foreman/woman **9227**
clock and watch movements tester **9498**
clock assembler **9498**
clock assembly adjuster **9498**
clock balance wheel assembler **9498**
clock finisher **9498**
clock hairspring calibrator **9498**
clock hairspring maker **9498**
clock part die casting assembler **9498**
clock repairer **7344**
clock repairman/woman **7344**
clock shop clerk **6421**
clock spring assembler **9498**
clock staker **9498**
clocker, racetrack **5253**
clockmaker **7344**
clockmaker – jewellery manufacturing **7344**
clockmaker – manufacturing **9498**
closed circuit television installer **2242**
closed circuit TV sewer inspector **2264**
closer – sewing **9451**
closer sewing machine operator **9451**
cloth baler – textiles **9619**
cloth bleacher **9443**
cloth carrier **9616**
cloth cutter – fabric products manufacturing **9452**
cloth cutter, hand **9619**
cloth dryer **9443**
cloth dyer **9443**
cloth examiner **9444**
cloth finisher **9443**
cloth folder, hand **9616**
cloth grader **9444**
cloth inspector **9444**
cloth layer – garment manufacturing **9619**
cloth measurer **9444**
cloth mender **9451**
cloth mercerizer operator **9443**
cloth neutralizer **9443**
cloth offbearer **9616**
cloth printer **9443**
cloth ribber **9442**
cloth sampler **9444**

cloth shade maker **9443**
cloth shader **9443**
cloth shrinker **9443**
cloth sorter **9444**
cloth steamer **9443**
cloth stretcher-dryer tender **9443**
cloth tester **9444**
cloth turner **9616**
cloth washer – textile manufacturing **9443**
cloth weaver **9442**
cloth winder **9616**
cloth-bleaching range tender **9443**
cloth-cutting machine operator – fabric products manufacturing **9452**
cloth-doubling machine operator **9443**
cloth-dyeing range tender **9443**
clothes dryer assembler, electric **9484**
clothes presser – laundry and dry cleaning **6682**
cloth-finishing range operator **9443**
clothing buyer **6233**
clothing cutter – clothing manufacturing **9452**
clothing design teacher – college or vocational institute **4131**
clothing designer **5243**
clothing factory manager **0911**
clothing inspector **9454**
clothing ironer – laundry and dry cleaning **6682**
clothing manufacturing foreman/woman **9225**
clothing plant labourer **9619**
clothing purchasing director **0113**
clothing purchasing manager **0113**
clothing salesperson – retail **6421**
clothing store manager **0621**
cloth-measuring machine tender **9444**
cloth-neutralizing and cloth-rinsing machine operator **9443**
cloth-printing machine helper **9443**
cloth-printing machine tender **9443**
cloth-printing roller changer **9443**
cloth-processing range tender **9443**
clown **5232**
club car attendant **6453**
clubhouse attendant **6671**
clubhouse attendants supervisor **6216**
clutch assembler **9486**
clutch assembly inspector, motor vehicles **9486**
clutch inspector **9486**
clutch preassembler **9486**
clutch rebuilder **9486**
CMA (certified management accountant) **1111**
CMD (Chinese medicine doctor) **3232**
CMHC (Canada Mortgage and Housing Corporation) inspector **2264**
CNA (certified nursing assistant) **3233**
CNC (computer numerical control) lathe operator – metal machining **9511**
CNC (computer numerical control) machining tool operator **9511**
CNC (computer numerical control) machinist **7231**
CNC (computer numerical control) Mastercam programmer **2233**
CNC (computer numerical control) profile mill operator **9511**
CNC (computer numerical control) programmer **2233**
CNC (computer numerically controlled) band saw operator **9513**
CNC (computer numerically controlled) brake press operator **9514**
CNC (computer numerically controlled) brake press set-up operator **9514**
CNC (computer numerically controlled) machine set-up operator – metal machining **9511**
CNC (computer numerically controlled) machining centre operator **9511**
CNC (computer numerically controlled) technologist **2233**
CNC (computer numerically controlled) woodworking machine tool operator **9513**
CNC-CMM (computer numerically controlled coordinate measuring machine) programmer **2233**
CO (certified orthotist) **3219**
coach **5252**
coach assembler – bus assembly **9486**
coach repairer, railway **7314**
coach, amateur athletics team **5252**
coach, amateur sports team **5252**
coach, amateur track and field team **5252**
coach, athletics **5252**
coach, athletics team **5252**
coach, baseball **5252**
coach, baseball team **5252**
coach, basketball team **5252**
coach, bobsled **5252**
coach, bobsleigh **5252**
coach, figure-skating **5252**
coach, football **5252**
coach, football team **5252**
coach, gymnastics **5252**
coach, hockey **5252**
coach, hockey team **5252**

coach, junior hockey **5252**
coach, lacrosse **5252**
coach, lacrosse team **5252**
coach, life skills **4212**
coach, luge **5252**
coach, national team **5252**
coach, professional sports team **5252**
coach, professional team **5252**
coach, provincial team **5252**
coach, ski **5252**
coach, sports **5252**
coach, swim **5252**
coach, swimming **5252**
coach, team of professional athletes **5252**
coach, tennis **5252**
coach, track and field **5252**
coach, track and field athletes **5252**
coach, track and field team **5252**
coach, volleyball **5252**
coagulator, plastics **9422**
coal breaker **9411**
coal conveyor operator **7452**
coal conveyor operator – surface mining **7452**
coal dumper **7452**
coal furnace installer **7331**
coal furnace installer-mechanic **7331**
coal gas exhaust operator **9232**
coal geologist **2113**
coal handler **7452**
coal hauler – underground mining **8411**
coal hauler (except underground mining) **7411**
coal loader-unloader **7452**
coal mine car dispatcher **1475**
coal mine foreman/woman **8221**
coal miner **8231**
coal preparation consulting engineer **2142**
coal sampler **8614**
coal screener **9411**
coal separator **9411**
coal tar distiller **9232**
coal washer **9411**
coal wheeler **7452**
coal-and-coke crushing and grinding foreman/woman **9211**
coal-moving equipment operator **7452**
coarse salt equipment operator **9411**
Coast Guard vessel chief engineer **2274**
Coast Guard vessel commanding officer **2273**
Coast Guard vessel first watchkeeping engineer **2274**
Coast Guard vessel first watchkeeping officer **2273**
Coast Guard vessel marine engineer officer **2274**
Coast Guard vessel navigation officer **2273**
Coast Guard vessel second engineer **2274**
Coast Guard vessel second officer **2273**
Coast Guard vessel second watchkeeping engineer **2274**
Coast Guard vessel second watchkeeping officer **2273**
Coast Guard vessel senior engineer **2274**
Coast Guard vessel third engineer **2274**
Coast Guard vessel third officer **2273**
Coast Guard vessel third watchkeeping engineer **2274**
Coast Guard vessel third watchkeeping officer **2273**
coastal engineer **2131**
coat and hat checker **6683**
coater – electrical equipment manufacturing **9487**
coater operator – textile manufacturing **9443**
coater operator, optical mirrors **9517**
coater tender – textile manufacturing **9443**
coater, asphalt **9421**
coater, optical elements – non-prescription **9517**
coater, rustproof – motor vehicle manufacturing **9496**
coater-laminator – paper products **9435**
coater-painter, pipes **9496**
coating and embossing unit operator – textile manufacturing **9443**
coating compounds mixer – chemical processing **9421**
coating equipment operator **9496**
coating equipment operator – metal plating **9497**
coating machine feeder – chemical processing **9613**
coating machine feeder – plastic products manufacturing **9615**
coating machine feeder – rubber products manufacturing **9615**
coating machine helper **9614**
coating machine operator – chemical processing **9421**
coating machine operator – electrical equipment manufacturing **9487**
coating machine operator – industrial painting and coating **9496**
coating machine operator – textile manufacturing **9443**
coating machine operator, production **9496**
coating machine tender – chemical processing **9421**

coating machine tender – product manufacturing **9496**
coating machine tender – textile manufacturing **9443**
coating machine tender, pencils **9496**
coating oven tender – manufacturing **9496**
coating pan operator – food and beverage processing **9461**
coating room foreman/woman – pulp and paper **9215**
coating tank dipper **9496**
coatings chemist **2112**
coatings engineer, chemical **2134**
coatings mixer – chemical processing **9421**
cobbler **7343**
cocktail waiter/waitress **6453**
cocoa bean cleaner **9617**
cocoa bean press-mill helper **9617**
cocoa bean roaster **9461**
cocoa bean roaster helper **9617**
cocoa bean-shelling machine tender **9461**
cocoa butter filterer **9461**
cocoa mill operator **9461**
cocoa powder mixer **9617**
cocoa-nib grinder **9461**
COD (cash on delivery) clerk **1431**
coding clerk **1454**
coding machine tender – electrical equipment manufacturing **9487**
coffee blender **9461**
coffee grinder **9461**
coffee maker assembler **9484**
coffee roaster **9461**
coffee roasting foreman/woman **9213**
coffee-blending machine feeder **9617**
coffin and casket fitter **9492**
cogger, rubber belts **9423**
cognitive psychologist **4151**
coil adjuster – electrical equipment manufacturing **9484**
coil assembler – electronic equipment manufacturing **9483**
coil assembler – industrial electrical equipment **9485**
coil bander – primary metal processing **9611**
coil builder – industrial electrical equipment **9485**
coil clamper, transformer assembly **9485**
coil connector repairer **7333**
coil finisher – electrical equipment manufacturing **9484**
coil former – industrial electrical equipment **9485**
coil inspector – electronic equipment manufacturing **9483**
coil installer, motor and generator – industrial electrical equipment **9485**
coil machine operator **9516**
coil maker – industrial electrical equipment **9485**
coil shaper – industrial electrical equipment **9485**
coil spring grinder – metal products manufacturing **9612**
coil spring machine tender **9516**
coil taper – electrical equipment manufacturing **9484**
coil taper, hand – industrial electrical equipment **9485**
coil winder and repairer **7333**
coil winder, transformer **9485**
coil winding foreman/woman – electronics manufacturing **9222**
coiled tubing operator – oil field services **8412**
coiler – metal products manufacturing **9516**
coiler operator – primary metal processing **9411**
coiler, hot-wound springs **9516**
coiler, springs **9516**
coiler, valve springs **9516**
coiling machine operator – metal products manufacturing **9516**
coil-rewind machine tender **9516**
coil-winding machine operator – electronic equipment manufacturing **9483**
coil-winding machine setter – industrial electrical equipment **9485**
coil-winding machine tender – automatic electrical equipment **9484**
coil-winding machine tender, automatic – electrical equipment manufacturing **9484**
coin dealer **0621**
coin laundry attendant **6683**
coin machine tender **1431**
coke by-products pump operator – chemical processing **9421**
coke by-products pump operator – primary metal processing **9411**
coke grinder **9411**
coke inspector – primary metal processing **9415**
coke loader – primary metal processing **9611**
coke oven door operator **9411**
coke oven heater helper **9611**
coke oven operator **9411**
coke ovens foreman/woman **9211**
coke plant by-products operator **9231**
coke sampler and tester – primary metal processing **9415**

coke screen tender **9411**
coke screening foreman/woman **9211**
coke screening foreman/woman – mineral and metal processing **9211**
coke-screen and coke-blender tender **9411**
cold drawn operator – metal forging **9512**
cold foods chef **6241**
cold mill feeder – primary metal processing **9611**
cold mill operator – primary metal processing **9231**
cold patcher, asphalt **7611**
cold press operator – metal forging **9512**
cold press tender – woodworking **9513**
cold roll catcher – primary metal processing **9611**
cold rolling mill feeder – primary metal processing **9611**
cold steel roller – steel production **9411**
cold steel rolling mill operator **9411**
cold-composition typographer **1423**
cold-storage checker **7622**
cold-storage manager **0651**
cold-typesetting typographer **1423**
collar and belt turner **9517**
collating machine operator – printing **9473**
collator and gluer, machine – printing **9473**
collator tender – printing **9619**
collator-inserter tender – printing **9619**
collect call operator – telephone system **1424**
collection agency sales representative **6411**
collection agent – government services **1228**
collection agent (except taxation) **1435**
collection and delivery operations manager – postal service **0132**
collection centre manager **0122**
collection clerk **1435**
collection clerks supervisor **1212**
collection legal assistant **4211**
collection manager **0122**
collection manager – bank or trust company **0122**
collection officer – taxation **1228**
collection officer (except taxation) **1435**
collection paralegal **4211**
collection supervisor **1212**
collection truck driver **7422**
collection unit head – government services **1228**
collections department manager **0111**
collections investigation officer **1435**
collective agreement negotiator **1121**
collective insurance consultant **1121**
collector **1435**
collector of taxes **1435**
collector, seed cones **8422**
college chancellor **0014**
college counsellor **4143**
college department chairperson, trades programs **4131**
college director – postsecondary education **0312**
college instructor **4131**
college laboratory assistant **4122**
college of applied arts and technology instructor **4131**
college of applied arts and technology teacher **4131**
college president **0014**
college principal – secondary level **0313**
college registrar **0312**
college teacher **4131**
college teaching assistant **4122**
collision repair technician **7322**
colour analyst, fashion **6481**
colour and large copier operator **9471**
colour artist – cartoons **5241**
colour card maker, machine **9435**
colour consultant, fashion **6481**
colour copier operator **9471**
colour correction scanning machine operator **9472**
colour edition preparer – printing **9472**
colour film analyzer – photographic processing **9474**
colour grader – textiles **9444**
colour grinder tender – chemical processing **9421**
colour matcher – chemical processing **9421**
colour matcher – textiles **9444**
colour mixer – textile manufacturing **9443**
colour mixer, prints – chemical processing **9421**
colour photocopier operator **9471**
colour photocopy operator **9471**
colour picture tube assembler **9483**
colour printer-technician – photographic processing **9472**
colour scanner operator – printing **9472**
colour separation assistant – scanning **9472**
colour separation camera operator **9472**
colour separation camera operator – printing **9472**
colour separation electronic scanning machine operator **9472**
colour separation operator **9472**
colour timer – video **5225**
colour weigher and mixer **9421**
colour-card maker, hand **9498**
colour-editing terminal operator – printing **9472**
colourer tender – hide and pelt processing **9453**
colourist – cartoons **5241**

colourist – textile manufacturing **9443**
colourist, photography **5223**
column operator – chemical processing **9232**
columnist **5123**
columnist, entertainment **5123**
columnist, fashion **5123**
columnist, society **5123**
columnist, sports **5123**
comb fixer – textile manufacturing **7317**
comb maker **9498**
comb setter – textile manufacturing **7317**
combed sliver dyer – textile manufacturing **9443**
comber – textile manufacturing **9441**
combination man/woman – telecommunications **7246**
combination mechanic, heavy equipment **7312**
combination welder **7265**
combine operator **8431**
combined laboratory and x-ray technician **3212**
combined laboratory and x-ray technologist **3211**
combiner machine helper **9614**
combiner machine operator – paper mill **9433**
combining and drawing machine tender – textile manufacturing **9441**
combustion tester, furnace – primary metal processing **9415**
comedian **5135**
comic **5135**
commanding officer – police **0641**
commanding officer – water transport **2273**
commanding officer, Coast Guard vessel **2273**
commanding officer, dredge **2273**
commanding officer, offshore rig **2273**
commentator **5123**
commentator, fashion show **5231**
commentator, radio **5123**
commerce officer **4163**
commerce subjects teacher – secondary school **4141**
commerce teacher, secondary school **4141**
commercial accounts manager **0611**
commercial agent – wholesale **6411**
commercial air conditioning mechanic **7313**
commercial air conditioning mechanic helper **7612**
commercial airline pilot **2271**
commercial analysis director – government services **0412**
commercial and industrial equipment and supplies sales representative – technical wholesale **6221**
commercial and industrial equipment and supplies sales representative – wholesale (non-technical) **6411**
commercial announcer **5231**
commercial art instructor **4131**
commercial art teacher – college or vocational institute **4131**
commercial artist **5241**
commercial attaché **0122**
commercial banking accounts officer **1232**
commercial banking manager **0122**
commercial building painter **7294**
commercial building rental agent **1224**
commercial construction manager **0711**
commercial construction painter **7294**
commercial design artist **5241**
commercial designer **5241**
commercial development manager – postal and courier services **0132**
commercial development officer – government **4163**
commercial diver **7382**
commercial draftsperson **2253**
commercial free-diver **7382**
commercial law clerk **4211**
commercial law legal assistant **4211**
commercial law notary **4112**
commercial law paralegal **4211**
commercial law secretary **1242**
commercial lawyer **4112**
commercial mortgages accounts manager **0122**
commercial mortgages manager **0122**
commercial network development manager **0611**
commercial photographer **5221**
commercial pilot **2271**
commercial press operator **7381**
commercial property manager **1224**
commercial real estate agent **6232**
commercial real estate salesperson **6232**
commercial refrigeration mechanic **7313**
commercial refrigerator assembler **9484**
commercial research analyst **4163**
commercial salesperson – wholesale **6411**
commercial scuba diver **7382**
commercial security officers supervisor **6465**
commercial sewing machine operator **9451**
commercial sign erector **7441**
commercial sign installer **7441**
commercial skin diver **7382**
commercial subjects teacher – community college **4131**

commercial subjects teacher – vocational school **4131**
commercial trailer mechanic **7321**
commercial trailer technician **7321**
commercial transport inspector **6463**
commercial transport vehicle mechanic **7321**
commercial traveller – wholesale **6411**
commercial underwriter – insurance **1234**
commercial vehicle driver instructor **4131**
commercial vehicle enforcement officer **6463**
commissary agent – airline **6433**
commissary attendant – air transport **6432**
commissary waiter/waitress **6453**
commission agent, livestock **6411**
commission brokers manager – investments **0121**
commission steward – horse racing **5253**
commissionaire – security **6651**
commissioned land surveyor **2154**
commissioned salesperson – retail **6421**
commissioner – government services **0012**
commissioner of affidavits **1227**
commissioner of inquiries **0012**
commissioner of marriages **1227**
commissioner, territorial **0011**
committee clerk **1222**
commodities trading manager **0121**
commodity broker **1113**
commodity trader **1113**
communication aide – medical **3235**
communication assistant – medical **3235**
communication clerks supervisor **1211**
communication designer **5241**
communication disorders assistant **3235**
communication disorders instructor **3235**
communication electrician – network craft **7246**
communication equipment sales representative **6221**
communication service firefighter **6262**
communication systems design manager **0213**
communication systems technician – military **7246**
communication teacher – college **4131**
communication technician – construction **7245**
communication technician line **7245**
communication technician, telephone **7246**
communications adviser **5124**
communications and electronics engineer – military **2133**
communications consultant **5124**
communications director **0611**
communications director – sales and marketing **0611**
communications electrician – construction craft **7245**
communications electrician – telecommunications **7246**
communications equipment assembler **9483**
communications equipment assembly foreman/woman – electronics manufacturing **9222**
communications equipment repairer – avionics **2244**
communications equipment restoration technician – museum **5212**
communications equipment testing supervisor – electronics manufacturing **9222**
communications expert **5124**
communications foreman/woman **7212**
communications manager **0611**
communications manager – public relations **0611**
communications manager – telecommunications **0131**
communications manager, Internet **0611**
communications officer **5124**
communications policy researcher **4161**
communications research scientist **2111**
communications researcher – military **6464**
communications service co-ordinator **1221**
communications specialist **5124**
communications specialist dispatcher **1475**
communications teacher – community college **4131**
communications technician – military **7246**
communications technologist **2241**
communicative disorders assistant **3235**
communicative disorders instructor **3235**
community and social services worker **4212**
community and urban planner **2153**
community antenna television (CATV) installation technician – telecommunications **7247**
community antenna television (CATV) maintenance technician **7247**
community antenna television (CATV) service installation technician – telecommunications **7247**
community antenna television (CATV) technician – cable television **7247**
community antenna television (CATV) technician – telecommunications **7247**
community arts co-ordinator **0314**
community audiologist **3141**
community based trainer **4131**

community case manager officer – corrections **4155**
community centre co-ordinator **4212**
community centre director **0314**
community centre manager **0314**
community centre worker **4212**
community college dean **0312**
community college department head **4131**
community college instructor **4131**
community college president **0014**
community college registrar **0312**
community college teacher **4131**
community counsellor – social services **4212**
community dental hygienist **3222**
community development consultant **4163**
community development worker **4212**
community dietitian **3132**
community economic development consultant **4163**
community economic development director – government services **0412**
community economic development officer **4163**
community health nurse **3152**
community health physician **3111**
community health technician – medical laboratory **3212**
community information officer **5124**
community interpreter **5125**
community liaison worker **4212**
community medicine physician **3111**
community medicine specialist **3111**
community mental health counsellor **4153**
community mental health worker **4212**
community museum technician **5212**
community nutritionist **3132**
community occupational therapist **3143**
community organization worker **4212**
community organizer **4164**
community pharmacist **3131**
community planner **2153**
community planning director – government services **0411**
community planning teacher – college **4131**
community planning teacher – community college **4131**
community police officer **6261**
community policing program consultant **4164**
community practice occupational therapist **3143**
community preventive medicine physician **3112**
community programs director **0314**
community recreation and leisure consultant **4167**
community recreation and leisure counsellor **4167**
community recreation co-ordinator **4167**
community recreation planner **2153**
community recreational and leisure programs consultant **4167**
community recreational and leisure programs counsellor **4167**
community rehabilitation manager – government services **0411**
community rehabilitation worker **4212**
community relations officer – police **6261**
community school principal **0313**
community service counsellor **4212**
community service worker **4212**
community services director **0314**
community services officer – police **6261**
community services officer – social services **4212**
community social development officer **4164**
community speech-language pathologist **3141**
community teacher, Aboriginal school – secondary school **4141**
community teacher, Native school – secondary school **4141**
community worker **4212**
commutator assembler **9485**
commutator assembler – industrial electrical equipment **9485**
compact disc assembler **9484**
compact disc inspector – plastic products manufacturing **9495**
compact disc matrix inspector **9498**
compact disc player assembler **9483**
compact disc player inspector and tester **9483**
compact disc sales clerk **6421**
companion **6471**
companion animal veterinarian **3114**
company chauffeur **7413**
company physician **3112**
company trainer **4131**
comparison shopper **6623**
compass assembler **9498**
compassman/woman – land surveying **7612**
compensation agent **1453**
compensation and benefits co-ordinator **1121**
compensation and classification analyst **1121**
compensation consultant **1121**
compensation manager **0112**
compensation officer **1121**
compensation research analyst **1121**
compensation researcher-analyst **1121**
competitive sports judge **5253**
compiler **1452**

complaint service technician – telecommunications **7246**
complaints adjuster **1453**
complaints clerk – telephone system **1424**
compliance inspector – buildings **2264**
component inserting machine operator **9483**
component inspector – electronic equipment manufacturing **9483**
components assembler – electronic equipment manufacturing **9483**
composer **5132**
composing foreman/woman – printing **7218**
composing machine operator – typesetting **1423**
composing machine operator, Linotype **1423**
composing room proofreader **1452**
composing room supervisor – printing **7218**
composite and sheet metal repairer, aircraft **7315**
composite repair technician **7315**
composition floor layer **7295**
composition mixer – chemical processing **9421**
composition roofer **7291**
compositor – typesetting **1423**
compositors foreman/woman – printing **7218**
compositors supervisor – printing **7218**
compositor-typographer **1423**
compounder – chemical processing **9421**
compounder, latex **9421**
compounder, plastics **9422**
compounder, plastics and plastic products **9422**
compounding foreman/woman – rubber and plastic manufacturing **9214**
compressed air and gas regulator assembler **9498**
compressed gas plant maintenance mechanic **7311**
compressed gas plant worker **9613**
compressed gases tester **2211**
compression moulder – plastic manufacturing **9422**
compression moulding foreman/woman – rubber and products manufacturing **9214**
compressor fitter **7316**
compressor operator, gas processing **9232**
compressor operator, natural gas **9232**
compressor station foreman/woman **9212**
compressor station manager **0912**
compressor station operator – pipelines **9232**
comptroller general of Canada **0012**
computer aided drafting (CAD) technician **2253**
computer analyst **2171**
computer and related services manager **0213**
computer animator **5241**
computer application programmer **2174**
computer applications engineer **2173**
computer applications manager **0213**
computer applications sales engineer **6221**
computer assisted electromechanical design draftsperson **2253**
computer audit specialist **1111**
computer based trainer **4131**
computer communications technician **2241**
computer consultant **2171**
computer department co-ordinator **0213**
computer development division head **0213**
computer education director **0413**
computer engineer (except software) **2147**
computer equipment installer **2242**
computer equipment operator **1422**
computer equipment repairer **2242**
computer equipment sales specialist **6221**
computer equipment technician – household and business equipment **2242**
computer facility manager **0213**
computer field service technician **2242**
computer game developer **2174**
computer graphics design technician **5223**
computer graphics operator **5223**
computer graphics specialist **5241**
computer graphics technician **5223**
computer hardware engineer **2147**
computer hardware specialist **2241**
computer hardware technologist **2241**
computer help desk representative – systems **2282**
computer help desk supervisor **2282**
computer inspector-tester **2241**
computer integrated manufacturing (CIM) engineer **2141**
computer manager **0213**
computer networks manager **0213**
computer numerical control (CNC) machinist **7231**
computer numerical control (CNC) Mastercam programmer **2233**
computer numerically controlled (CNC) band saw operator **9513**
computer numerically controlled (CNC) machine set-up operator – metal machining **9511**
computer numerically controlled (CNC) machining centre operator **9511**
computer numerically controlled coordinate measuring machine (CNC-CMM) programmer **2233**
computer operations supervisor **2281**
computer operator **2281**
computer operators supervisor **2281**

computer peripheral equipment operator **2281**
computer photocompositor **1423**
computer phototypesetter **1423**
computer products dealer – retail **0621**
computer products store manager **0621**
computer programmer **2174**
computer programming instructor – college or vocational institute **4131**
computer programs manager **0213**
computer projects manager **0213**
computer repair technician **2242**
computer salesperson – retail **6421**
computer science college teacher **4131**
computer science professor – university **4121**
computer search librarian **5111**
computer service technician **2242**
computer services sales representative **6411**
computer simulations analyst **2171**
computer software design manager **0213**
computer software engineer **2173**
computer software sales representative **6221**
computer system operations manager **0213**
computer system sales representative **6221**
computer systems analysis technical consultant **2171**
computer systems analyst **2171**
computer systems development co-ordinator **2171**
computer systems development manager **0213**
computer systems engineer **2147**
computer systems manager **0213**
computer tape librarian **2281**
computer technology school director **0312**
computer technology teacher – secondary school **4141**
computer telecommunications software specialist **2173**
computer telecommunications specialist **2147**
computer terminal operator **1422**
computer trainer **4131**
computer training instructor **4131**
computer training representative **4131**
computer typesetter **1423**
computer-aided design (CAD) specialist – drafting **2253**
computer-aided design (CAD) technologist **2253**
computer-aided page maker-up **1423**
computer-assisted design and drafting technologist **2253**
computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer **2233**
computer-assisted drafting (CAD) instructor – college or vocational institute **4131**
computer-assisted drafting (CAD) technician **2253**
computer-assisted letterer-engraver **9472**
computer-assisted machinist **7231**
computerized accounting clerk **1431**
computerized information systems manager **0213**
computerized panel saw tender **9513**
computerized technical information manager **0213**
computing services company president **0013**
concentrating plant mechanic **7311**
concentrator control room operator **9231**
concentrator foreman/woman – primary metal and mineral products processing **9211**
concert singer **5133**
concession holder **0621**
concession manager **0621**
conche machine tender **9461**
concierge, apartment building **6663**
concierge, office building **6663**
conciliation officer – employee relations **1121**
conciliator **1121**
conciliator – labour **1121**
concrete and cement finishers foreman/woman **7219**
concrete and cement finishing contractor **7219**
concrete batch plant operator – cement manufacturing **9411**
concrete block machine operator **9414**
concrete block maker **9414**
concrete block pourer **7611**
concrete block setter **7281**
concrete breaker **7611**
concrete burial vault maker **9414**
concrete engineer **2131**
concrete finisher **7282**
concrete finisher apprentice **7282**
concrete finisher helper **7611**
concrete finishers foreman/woman **7219**
concrete finishing foreman/woman **7219**
concrete fittings maker **9414**
concrete float pourer **7611**
concrete floor finisher **7282**
concrete form builders foreman/woman – carpentry **7215**
concrete former helper **7611**
concrete forms carpenter **7271**
concrete gun operator **7611**
concrete hydraulic press operator **9414**
concrete mason **7282**

concrete mixer caster **9414**
concrete mixer helper **7611**
concrete mixer operator – concrete manufacturing **9414**
concrete mixer operator – construction **7611**
concrete mixer operator helper – highway construction **7611**
concrete mixer-caster **9414**
concrete moulder **9414**
concrete operator – dry cast **9414**
concrete operator – wet cast **9414**
concrete patcher-finisher **7282**
concrete paver operator helper **7611**
concrete paving foreman/woman **7217**
concrete paving labourer **7611**
concrete pipe machine tender **9414**
concrete plant operator **9414**
concrete pole maker – concrete products manufacturing **9414**
concrete pole moulder – concrete products manufacturing **9414**
concrete polisher **7282**
concrete pourer – construction **7611**
concrete products foreman/woman **9211**
concrete products inspector **9415**
concrete products machine operator **9414**
concrete products moulder **9414**
concrete products salesperson – wholesale **6411**
concrete products tester **9415**
concrete pump operator **7611**
concrete saw tender **9414**
concrete sawyer **9414**
concrete smoother-finisher **7282**
concrete spin caster **9414**
concrete spreader operator **7611**
concrete spreader operator – heavy equipment **7421**
concrete technician **2231**
concrete vault maker **9414**
concrete vibrator operator, manual **7611**
concrete waterproofer – construction **7611**
concrete-grooving machine operator **7421**
concrete-laying gang foreman/woman **7217**
concrete-paving labour gang foreman/woman **7217**
concrete-paving machine operator **7421**
concrete-spinning machine operator **9414**
condenser setter – primary metal processing **9411**
condenser winder – electronic equipment manufacturing **9483**
conditioner tender – textile manufacturing **9443**
conductor **5132**
conductor – railway yard **7362**
conductor – road freight **7362**
conductor – switching yard **7362**
conductor, band **5132**
conductor, choral **5132**
conductor, orchestra **5132**
conductor, passenger train **7362**
conductor, railway **7362**
conduit installer – electric power systems **7244**
cone and wafer machine tender **9461**
cone assembler – electronic equipment manufacturing **9483**
cone former – paper converting **9435**
cone maker – food and beverage processing **9461**
cone tender **9411**
cone winder – paper converting **9435**
cone winder – textile manufacturing **9441**
confection labourer – food and beverage processing **9617**
confection syrup maker **9461**
confectionery cooker **9461**
confectionery department manager – retail **0621**
confectionery foreman/woman **9213**
confectionery manager **0621**
confectionery sales clerk **6421**
conference and meeting planner **1226**
conference centre manager **0721**
conference co-ordinator **1226**
conference development manager **0123**
conference facilitator **1122**
conference interpreter **5125**
conference organizer **1226**
conference planner **1226**
conference services officer **1226**
connecting rod borer **9511**
connector assembler – electrical equipment manufacturing **9484**
consecutive interpreter **5125**
conservation and restoration technician **5212**
conservation officer **2224**
conservation technician – forestry **2223**
conservation technician – museums and art galleries **5212**
conservator **5112**
conservator – art objects **5112**
conservator, art gallery **5112**
console assembler – electronic equipment manufacturing **9483**
console operator – cement manufacturing **9231**
console operator – food and beverage processing **9461**
constable **6261**

construction and maintenance electrician **7241**
construction and maintenance technician – military **2231**
construction assistant manager **0711**
construction blaster **7372**
construction boilermaker **7262**
construction camp cook **6242**
construction campsite attendant **6663**
construction carpenter **7271**
construction cost consultant **2234**
construction cost estimator **2234**
construction craft labourer **7611**
construction crane operator **7371**
construction driller **7372**
construction electrician **7241**
construction electrician apprentice **7241**
construction electrician helper **7611**
construction electricians and repairers foreman/woman **7212**
construction electricians foreman/woman **7212**
construction electricians supervisor **7212**
construction engineer **2131**
construction engineering procedures technician – military **2231**
construction engineering technician **2231**
construction engineering technician – military **2231**
construction equipment mechanic **7312**
construction equipment mechanic helper **7612**
construction equipment operator **7421**
construction equipment repairman/woman **7312**
construction equipment sales representative **6221**
construction estimator **2234**
construction expeditor **0711**
construction field inspector **2264**
construction gang foreman/woman **7217**
construction general contractor **0711**
construction general manager **0016**
construction general superintendent **0711**
construction helper **7611**
construction inspector **2264**
construction inspector and tester **2264**
construction labourer **7611**
construction labourer and helper **7611**
construction lineman/woman – electric power systems **7244**
construction lineman/woman – electrical power line **7244**
construction machinery assembly foreman/woman **9226**
construction manager **0711**
construction material sales representative **6221**
construction millwright **7311**
construction operations manager **0711**
construction painter **7294**
construction painters foreman/woman **7219**
construction painters supervisor **7219**
construction permits clerk **1441**
construction progress report clerk **1473**
construction project co-ordinator **0711**
construction project engineer **2131**
construction project manager **0711**
construction project superintendent **0711**
construction requirements writer **2231**
construction safety officer **2264**
construction schedule co-ordinator **1473**
construction senior project manager **0711**
construction sheet metal worker **7261**
construction site foreman/woman **7217**
construction site manager **0711**
construction site superintendent **0711**
construction special project manager **0711**
construction specifications writer **2231**
construction superintendent **0711**
construction supervisor – underground mining and quarrying **8221**
construction technician **2231**
construction technician – cable television **7245**
construction technician – civil engineering **2231**
construction technician – telecommunications **7245**
construction technologist **2231**
construction trades helper **7611**
construction worker **7611**
construction worker – mines **8411**
consul **0012**
consultant dietitian **3132**
consultant nurse **3152**
consultant nutritionist **3132**
consultant physical therapist **3142**
consultant physiotherapist **3142**
consultant, adult education **4166**
consultant, advertising **1122**
consultant, art therapy **3144**
consultant, business **1122**
consultant, community recreation and leisure **4167**
consultant, community recreational and leisure programs **4167**
consultant, construction costs **2234**
consultant, corporate image **6481**
consultant, data processing **2171**
consultant, dating agency **6484**
consultant, dating service **6484**

consultant, drug and alcohol abuse **4165**
consultant, education **4166**
consultant, education policies **4166**
consultant, employee fitness **4167**
consultant, etiquette **6481**
consultant, fashion **6481**
consultant, fashion and wardrobe **6481**
consultant, fashion colours **6481**
consultant, fitness **4167**
consultant, geriatric recreational and leisure activities **4167**
consultant, hair replacement **6482**
consultant, health care **4165**
consultant, health care planning **4165**
consultant, heritage languages education **4166**
consultant, home-care programs **4165**
consultant, human resources **1121**
consultant, image **6481**
consultant, information technology (IT) **2171**
consultant, labour force planning – health sector **4165**
consultant, labour relations **1121**
consultant, leisure **4167**
consultant, leisure activities **4167**
consultant, make-up **6481**
consultant, management **1122**
consultant, management information systems (MIS) **2171**
consultant, marketing **4163**
consultant, mental health programs **4165**
consultant, natural and applied sciences **4161**
consultant, nursing **3152**
consultant, organizational analysis **1122**
consultant, personal image **6481**
consultant, personal improvement **6481**
consultant, personal wardrobe **6481**
consultant, professional image **6481**
consultant, public speaking **6481**
consultant, recreation **4167**
consultant, recreational activities **4167**
consultant, school subjects **4166**
consultant, social policy **4164**
consultant, social services **4164**
consultant, social services planning **4164**
consultant, special education **4166**
consultant, sports **4167**
consultant, sports and leisure **4167**
consultant, sports and recreation **4167**
consultant, systems **2171**
consultant, teaching **4166**
consultant, tourism – government **4163**
consultant, travel **6431**
consultant, wardrobe **6481**
consultant, wedding services **6481**
consultant, weight loss **6481**
consultant, youth recreational and leisure activities **4167**
consulting actuary **2161**
consulting agrologist **2123**
consulting architect **2151**
consulting civil engineer **2131**
consulting forester **2122**
consulting geologist **2113**
consulting geophysicist **2113**
consulting industrial engineer **2141**
consulting mechanical engineer **2132**
consulting mining engineer **2143**
consulting pension actuary **2161**
consumer advisor **4164**
consumer advisor – economics **4162**
consumer affairs inspector **2262**
consumer credit management trainee **0122**
consumer credit officer **1232**
consumer credit services manager trainee **0122**
consumer information director **0314**
consumer loans officer **1232**
consumer products designer **2252**
consumer sales representative **6411**
contact lens dispenser **3231**
contact lens fitter **3231**
contact lens practitioner **3231**
contact lens technician **3231**
contact person, recordings **6411**
contact printer **9472**
contagious disease transmission prevention nurse **3152**
container designer **2252**
container manufacturing manager **0911**
container tester, glass **9415**
container washer, machine – food and beverage processing **9617**
contemporary art curator **5112**
contemporary art museum curator **5112**
contingency planner, information systems **2171**
continuity person – motion pictures and broadcasting **5227**
continuous bucket excavator operator **7421**
continuous casting operator – primary metal processing **9231**
continuous digester operator – pulp and paper **9233**
continuous drossing operator **9411**
continuous dyeing machine operator – textile manufacturing **9443**

continuous felt dryer operator – textile manufacturing **9443**
continuous galvanizing line operator **9497**
continuous glue machine operator – printing **9473**
continuous mining machine operator **8231**
continuous mixer operator – rubber products manufacturing **9423**
continuous press tender – textile manufacturing **9443**
continuous process cook – pulp and paper **9233**
continuous process foreman/woman – chemical processing **9212**
contortionist **5232**
contour grinder, machine – concrete, clay and stone products **9414**
contour sander operator – woodworking **9513**
contour-grinding machine operator – concrete, clay and stone products **9414**
contract claims examiner **1225**
contract clerk **1441**
contract clerk – financial sector **1434**
contract clerk – law **4211**
contract clerks supervisor **1211**
contract counsel **4112**
contract director **0113**
contract management officer **1225**
contract manager **0113**
contract negotiator **1225**
contractor – agricultural service **8252**
contractor, air conditioning **7216**
contractor, air conditioning and refrigeration **7216**
contractor, asphalt roofing **7219**
contractor, bricklaying **7219**
contractor, bricklaying and masonry **7219**
contractor, cabinetmaker **7215**
contractor, carpentry **7215**
contractor, cement finishing **7219**
contractor, concrete and cement finishing **7219**
contractor, construction ironwork **7214**
contractor, construction ironworking **7214**
contractor, decorating **7219**
contractor, drywall application **7219**
contractor, drywalling **7219**
contractor, eavestrough installation **7219**
contractor, electrical installation **7212**
contractor, electrical systems **7212**
contractor, electrical wiring installation **7212**
contractor, excavating **7217**
contractor, fencing **7219**
contractor, floor covering **7219**
contractor, forest conservation **8211**
contractor, glass installation and repair **7219**
contractor, glazing **7219**
contractor, heating and air conditioning **7216**
contractor, heating and air conditioning systems **7216**
contractor, heating system installation and repair **7216**
contractor, heating systems **7216**
contractor, home building **0712**
contractor, home renovation **0712**
contractor, hot water heater installation **7219**
contractor, insulating **7219**
contractor, insulation **7219**
contractor, interlocking paving stones **7219**
contractor, ironwork **7214**
contractor, logging **8211**
contractor, marble and terrazzo setting **7219**
contractor, metalwork forming, shaping and installing **7214**
contractor, painting **7219**
contractor, painting and wallpapering **7219**
contractor, paperhanging **7219**
contractor, pipefitting **7213**
contractor, plastering **7219**
contractor, plastering and drywall application **7219**
contractor, plastering and drywalling **7219**
contractor, plumbing **7213**
contractor, refrigeration **7216**
contractor, residential homes **0712**
contractor, roofing **7219**
contractor, roofing (except sheet metal roofs) **7219**
contractor, septic systems **7219**
contractor, sheet metal **7214**
contractor, sheet metal roofing **7214**
contractor, shingle roofing **7219**
contractor, siding **7219**
contractor, silviculture **8211**
contractor, steel structure forming, shaping and erecting **7214**
contractor, stonemasonry **7219**
contractor, structural steel erecting **7214**
contractor, swimming pool installation **7219**
contractor, telecommunications **7212**
contractor, terrazzo finishing **7219**
contractor, tile, terrazzo and marble setting **7219**
contractor, tilesetting **7219**
contractor, water well drilling **7217**
contractor, welding **7214**
contractor, well digging **7217**
contractor, well drilling **7217**
contractor, wood shingle roofing **7219**

contractor-carpenter **7215**
contractor-electrician **7212**
contractor-floor coverer **7219**
contractor-glazier **7219**
contractor-plasterer **7219**
contractor-polisher, terrazzo **7219**
contractor-roofer (except metal roofs) **7219**
contractors estimator **2234**
contracts officer **1225**
contributing editor **5122**
control assembler, aircraft **9481**
control board operator – telephone system **1424**
control chemist **2112**
control clerk – financial sector **1434**
control clerk – hotel and restaurant **1431**
control clerk, data processing **1422**
control clerk, production **1473**
control officer, steel mill **1473**
control operator, broadcasting **5224**
control operator, paper machine **9234**
control operator, pulping – pulp and paper **9233**
control operator, rolling mill – primary metal processing **9231**
control operator, transmission studio **5224**
control operator, video transmission studio **5224**
control panel assembler **9485**
control panel assembler – industrial electrical equipment **9485**
control panel operator – chemical processing **9232**
control panel technician – industrial electrical equipment **9485**
control panels tester **2241**
control room editor – broadcasting **5122**
control room furnace operator – smelter **9231**
control room operator – electrical power systems **7352**
control room operator – food and beverage processing **9461**
control room operator – offshore drilling **8412**
control room operator – primary metal processing **9231**
control room operator – pulp and paper **9233**
control room operator, trainee – electrical power system **7352**
control room technician – broadcasting **5224**
control systems engineer **2133**
control systems tester **2241**
control technician, nuclear generating station and heavy water plant **2243**
control tower operator – railway **7431**
controller – financial services **0111**
controller – financial, communications and other business services **0013**
controller – oil **9232**
controller, air traffic **2272**
controller, avalanche **2213**
controller, cars – railway **7431**
controller, network **2281**
controller, oil movement **9232**
controller, rail traffic **2275**
controller, railway cars – railway yard **7431**
controller, subway **7222**
controller, tank cars – railway yard **7431**
controlling and recording instruments assembly foreman/woman **9227**
convenience store clerk **6421**
convenience store manager **0621**
convention and special events planner **1226**
convention centre manager **0721**
convention co-ordinator **1226**
convention planner **1226**
convention planning services officer **1226**
conversion substation operator – electrical power system **7352**
converter foreman/woman – primary metal and mineral products processing **9211**
convertible top assembler – motor vehicle manufacturing **9482**
conveyance clerk **4211**
conveyancer **4211**
conveyor belt attendant **7452**
conveyor belt foreman/woman – rubber manufacturing **9214**
conveyor belt operator (except underground mines) **7452**
conveyor belt patroller-controller **7452**
conveyor belt splicer – rubber products manufacturing **9423**
conveyor cleaner – pulp and paper **9614**
conveyor console operator **7452**
conveyor labourer – primary metal and mineral products processing **9611**
conveyor line worker – electronic equipment manufacturing **9483**
conveyor operator – material handling (except underground mines) **7452**
conveyor operator – primary metal and mineral products processing **9611**
conveyor operator – underground mining **8411**
conveyor operator, grain **7452**
conveyor oven operator – food and beverage processing **9461**
conveyor repairer **7311**

conveyor tender – material handling (except underground mines) **7452**
conveyor tender – tobacco processing **9464**
conveyor washer tender **9619**
conveyor wire belt builder **9498**
conveyorman/woman – underground mining **8411**
convict guard **6462**
convoy guard **6651**
cook **6242**
cook – pulp and paper **9233**
cook tank operator – food and beverage processing **9461**
cook, apprentice **6242**
cook, camp **6242**
cook, domestic **6242**
cook, ethnic foods **6242**
cook, first **6242**
cook, fishing and merchant vessel **6242**
cook, institution **6242**
cook, kosher foods **6242**
cook, second **6242**
cook, small establishment **6242**
cook, third **6242**
cookee **6641**
cookee, logging camp **6641**
cooker – chemical processing **9421**
cooker, canned goods **9461**
cooker, meats – food and beverage processing **9461**
cooker, offal – food and beverage processing **9461**
cooker, process cheese **9461**
cookie and cracker tester **9465**
cooking school manager **0651**
cooking systems operator – pulp and paper **9233**
cooking teacher – elementary school **4142**
cooking teacher – secondary school **4141**
cook's first helper – pulp and paper **9432**
cook's helper **6641**
cook's helper, camp **6641**
cooler operator – fish processing **9618**
cooler shell assembler – plastic products manufacturing **9495**
cooler tender – tobacco processing **9464**
cooling bed operator – steel mill **9411**
cooling machine tender – food and beverage processing **9461**
cooling system operator **7351**
cooling unit assembler – electrical equipment manufacturing **9484**
co-op day-care co-ordinator **4214**
co-op officer **4143**
cooper **9493**
cooper foreman/woman **9227**
cooper header – woodworking **9513**
cooper header operator – wood **9513**
cooper operator – woodworking **9513**
cooperage heading machine operator – woodworking **9513**
cooperage heading sawyer **9513**
cooperage labourer **9619**
cooperage setter-up – woodworking **9513**
cooperage set-up man/woman – woodworking **9513**
cooperative education teacher **4141**
cooperative learning teacher **4141**
cooper's head-saw operator – woodworking **9513**
co-ordinator of court services **1227**
co-ordinator of nursing services **3151**
co-ordinator of social work **4152**
co-ordinator of technical services – telecommunications **0131**
co-ordinator, aquatic programs **4167**
co-ordinator, art gallery **0511**
co-ordinator, arts and crafts programs **4167**
co-ordinator, assembly – motor vehicle manufacturing **9221**
co-ordinator, bilingual services **1221**
co-ordinator, camp – sports and leisure **4167**
co-ordinator, community centre **4212**
co-ordinator, compensation and benefits **1121**
co-ordinator, computer systems development **2171**
co-ordinator, conferences **1226**
co-ordinator, conventions **1226**
co-ordinator, daycare **4214**
co-ordinator, day-care co-op **4214**
co-ordinator, employer-employee relations **1121**
co-ordinator, employment equity **1121**
co-ordinator, field teaching **0312**
co-ordinator, fitness **4167**
co-ordinator, freight traffic **1215**
co-ordinator, geriatric activities **4167**
co-ordinator, geriatric recreational and leisure activities **4167**
co-ordinator, human resources **1121**
co-ordinator, infection control – hospital **3152**
co-ordinator, information service **5124**
co-ordinator, labour relations **1121**
co-ordinator, leisure **4167**
co-ordinator, leisure activities programs **4167**
co-ordinator, leisure programs **4167**
co-ordinator, leisure services **4167**

co-ordinator, media relations **5124**
co-ordinator, municipal recycling program **4161**
co-ordinator, museum **0511**
co-ordinator, Native centre **4212**
co-ordinator, nautical activities **4167**
co-ordinator, nautical programs **4167**
co-ordinator, nursing **3151**
co-ordinator, nursing unit **3151**
co-ordinator, office services **1221**
co-ordinator, pool – recreation **4167**
co-ordinator, pool activities **4167**
co-ordinator, production planning **0911**
co-ordinator, public rights **4164**
co-ordinator, recreation **4167**
co-ordinator, recreation services **4167**
co-ordinator, recreational activities **4167**
co-ordinator, recreational activities programs **4167**
co-ordinator, recreational programs **4167**
co-ordinator, social events **1226**
co-ordinator, special education **4166**
co-ordinator, special events **1226**
co-ordinator, sport program administrative **0513**
co-ordinator, sports **4167**
co-ordinator, sports activities **4167**
co-ordinator, sports programs **4167**
co-ordinator, sports programs – sports and recreation **4167**
co-ordinator, staff training **0112**
co-ordinator, standards **1122**
co-ordinator, teen club programs **4167**
co-ordinator, tourism services – government **4163**
co-ordinator, waste management program **4161**
co-ordinator, women's shelter program **4164**
co-ordinator, word processing service **1211**
co-ordinator, youth development **4212**
co-ordinator, youth recreational and leisure activities program **4167**
cope and drag pinlift operator – foundry **9412**
co-pilot – air transport **2271**
copper billet piercer **9411**
copper billet piercing mill operator **9411**
copper caster – foundry **9412**
copper coater – metal plating **9497**
copper dust-collector worker **9611**
copper engraver – camera and platemaking **9472**
copper flotation operator **9411**
copper melter **9231**
copper ore slime treater **9411**
copper photoengraver **9472**
copper plater **9497**
copper refinery operator **9231**
copper-briquetting machine operator **9411**
copperplate engraver – artisan **5244**
copperplate photoengraver **9472**
coppersmith **7261**
copy camera operator – photographic processing **9474**
copy chief **5122**
copy cutter **1423**
copy editor **5122**
copy holder **1452**
copy lathe tender **9513**
copy marker – typesetting **1423**
copy preparer **5122**
copy room typist **1411**
copy runner – courier service **1463**
copy stylist – typesetting **1423**
copy stylist, graphic arts **5223**
copy typist – typesetting **1423**
copy, staple and glue machine operator **9471**
copyist – music **5132**
copy-reader, proofreader **1452**
copyright agent **4211**
copyright and royalties manager **0512**
copyright clearance supervisor **1213**
copyright clerk **1441**
copyright manager – publishing **0512**
copywriter **5121**
cordwood cutter **8421**
core assembler – industrial electrical equipment **9485**
core builder, small transformers **9484**
core cutter – paper converting **9435**
core cutter and reamer **9433**
core drill operator – construction, surface mining and quarrying **7372**
core driller **8231**
core driller – underground mining **8231**
core extruder – foundry **9412**
core inspector – foundry **9415**
core lapper, transformers **9485**
core layer – wood processing **9434**
core laying machine tender – wood processing **9434**
core machine operator – foundry **9412**
core maker – paper converting **9435**
core mounter **9619**
core oven operator – foundry **9412**
core oven tender – foundry **9412**
core pipe extractor **9619**
core room foreman/woman – pulp and paper **9215**
core room labourer – foundry **9611**
core room set-up man/woman – foundry **9412**

core setter – foundry **9412**
core shop labourer – foundry **9611**
core splitter **8614**
core stacker, transformers **9485**
core tester – foundry **9415**
core winder – paper converting **9435**
core-blower machine operator – foundry **9412**
core-drill operator **8231**
core-drill operator – underground mining **8231**
coremaker – foundry **9412**
coremaker, machine – foundry **9412**
coremaking foreman/woman – foundry **9211**
coremaking foreman/woman – mineral processing **9211**
coremaking foreman/woman – paper converting **9215**
coremaking machine operator – foundry **9412**
core-sand-mixer – foundry **9412**
core-winding machine operator – paper converting **9435**
coring operator – oil field services **8232**
cork insulation installer **7293**
cork tipper, cigarettes **9464**
corks and bottle caps inspector **9498**
corn chips cooker **9461**
corn cooker – food and beverage processing **9461**
corn dough machine tender **9461**
corn flakes roller – food and beverage processing **9461**
corn germ preparer – food and beverage processing **9461**
corn products presser – food and beverage processing **9461**
corn products pressman/woman – food and beverage processing **9461**
corn products starch presser **9461**
corn products sugar crystallizer operator **9461**
corn sugar filter operator **9461**
corn sugar refinery operator **9461**
corn syrup cooler and decolourizer **9461**
corn syrup maker **9461**
corn syrup processing labourer **9617**
corncob pipe assembler **9498**
corner store clerk **6421**
cornetist **5133**
coronary intensive care nurse **3152**
coronary unit nurse **3152**
coroner **4165**
corporate accounts manager – banking, credit and investment **0122**
corporate banking centre manager **0122**
corporate banking vice-president **0013**
corporate budgeting and analysis manager **0111**
corporate chef **6241**
corporate controller – financial, communications and other business services **0013**
corporate controller – goods production, utilities, transportation and construction **0016**
corporate controller – health, education, social and community services and membership organizations **0014**
corporate controller – trade, broadcasting and other services **0015**
corporate controller, logging company **0016**
corporate controller, mortgage brokerage firm **0013**
corporate controller, restaurant chain **0015**
corporate controller, social services institution **0014**
corporate counsel **4112**
corporate development planning adviser **1122**
corporate finance legal assistant **4211**
corporate financing manager **0111**
corporate image consultant **6481**
corporate law and litigation clerk **4211**
corporate law clerk **4211**
corporate law legal assistant **4211**
corporate law secretary **1242**
corporate notary (Quebec) **4112**
corporate paralegal **4211**
corporate pilot **2271**
corporate planner **1122**
corporate policy manager – education **0413**
corporate records legal assistant **4211**
corporate risk department manager **0111**
corporate sales manager **0611**
corporate secretary **1222**
corporate securities law clerk **4211**
corporate security officer **6465**
corporate traffic manager **0713**
corporate transportation manager **0713**
corporate trust services manager **0122**
corporate web master **2175**
corporation lawyer **4112**
corporation paralegal **4211**
corral boss **8253**
correction rehabilitation program co-ordinator **4164**
correctional centre caseworker **4155**
correctional facility guard **6462**
correctional institution director **0314**
correctional institution guard **6462**
correctional institution head matron **6462**
correctional officer **6462**

correctional officers supervisor **6462**
correctional rehabilitation society director **0314**
correctional service policy consultant **4164**
correctional services director **0314**
correctional services officer **6462**
correctional services unit supervisor **6462**
correctional treatment and training director **0314**
corrections officer **6462**
correspondence and public inquiries manager **0611**
correspondence clerk **1452**
correspondence clerks supervisor **1213**
correspondence filing clerk **1413**
correspondence review clerk **1452**
correspondence school instructor **4131**
correspondence school tutor **4131**
correspondence teacher – college or vocational school **4131**
correspondence teacher – elementary school **4142**
correspondence teacher – secondary school **4141**
correspondent **5123**
correspondent, newspaper **5123**
corrosion engineer **2142**
corrosion resistant metal sprayer **9497**
corrugated asbestos board former **9414**
corrugated box cutter – paper converting **9435**
corrugated fastener driver – woodworking **9513**
corrugating machine operator – paper converting **9435**
corrugating machine operator-cutter – paper converting **9435**
corrugation machine operator, sheet metal **9514**
corrugator operator – paper converting **9435**
corrugator operator-cutter – paper converting **9435**
corrugator sheet metal operator **9514**
corrugator, sheet metal **9514**
corrugator-operator helper **9614**
cosmetic surgeon **3111**
cosmetician **6482**
cosmetics and perfume maker **9421**
cosmetics demonstrator – retail **6623**
cosmetics salesperson – home sales **6623**
cosmetics salesperson – retail **6421**
cosmetologist **6482**
cosmic ray physicist **2111**
cosmologist **2111**
cost accountant **1111**
cost accounting clerk **1431**
cost accounting supervisor **1111**
cost and royalties manager – publishing **0512**
cost clerk **1431**
cost engineer **2141**
cost estimator – construction **2234**
cost estimator, manufacturing **2233**
cost financial analyst **1112**
cost supervisor **1212**
costing clerk **1431**
costume designer **5243**
costume designer – exhibits and theatre **5243**
costume maker **5226**
costume supervisor **5226**
costumer **5226**
costumes co-ordinator **5226**
costumier **5226**
cottage cheese maker **9461**
cotton ball machine tender **9441**
cotton roll machine tender **9619**
Cottrell precipitator helper – primary metal processing **9611**
Cottrell tender **9411**
council member, First Nations band **0011**
council secretary – government services **0012**
councillor **0011**
councilman/woman, city **0011**
counsel **4112**
counselling intern **4143**
counselling program supervisor **4153**
counselling psychologist **4151**
counselling services director **0314**
counselling services manager **0314**
counsellor for Aboriginal students **4143**
counsellor for persons who are intellectually impaired **4153**
counsellor, camp **5254**
counsellor, child and youth **4153**
counsellor, community recreation and leisure **4167**
counsellor, community recreational and leisure programs **4167**
counsellor, day camp – recreation **5254**
counsellor, employee fitness **4167**
counsellor, employment **4213**
counsellor, employment – government services **4213**
counsellor, employment group **4213**
counsellor, fitness **4167**
counsellor, geriatric recreational and leisure activities **4167**
counsellor, guidance **4143**
counsellor, job **4213**
counsellor, job – government services **4213**
counsellor, leisure **4167**
counsellor, leisure activities **4167**

counsellor, loans **1232**
counsellor, marriage **4153**
counsellor, outplacement **4213**
counsellor, personal image **6481**
counsellor, preretirement **4153**
counsellor, recreation **4167**
counsellor, recreational activities **4167**
counsellor, rehabilitation **4153**
counsellor, relocation **4213**
counsellor, school **4143**
counsellor, securities **1114**
counsellor, sports **4167**
counsellor, sports and leisure **4167**
counsellor, sports and recreation **4167**
counsellor, travel **6431**
counsellor, travel centre **6431**
counsellor, vocational **4213**
counsellor, youth recreational and leisure activities **4167**
counsellor-at-law **4112**
counsellor-lawyer **4112**
counter and upper tacker – footwear manufacturing **9498**
counter attendant – food service **6641**
counter attendant, cafeteria **6641**
counter attendant, lunchroom **6641**
counter attendant, restaurant **6641**
counter clerk – mail and postal services **1461**
counter clerk – retail **6421**
counter clerk (except airline) **6434**
counter clerk, bakery **6421**
counter clerk, deli **6421**
counter clerk, meats **6421**
counter clerk, parts **1472**
counter enquiries clerk **1453**
counter representative, car rental **6421**
counter sales agent – railway **6434**
counter sales agent (except airline) **6434**
counter sales clerk, automobile parts – retail **1472**
counter service agent (except airline) **6434**
counter service agent, railway **6434**
counter services agent, airline **6433**
counterfeit and forgery section detective **6261**
countersinker – metal machining **9511**
counting attendant – casino **6443**
country club grounds supervisor **8256**
country grain elevator agent **6234**
country grain elevator facility manager **0721**
country grain elevator manager **6234**
country grain elevator operator **6234**
country inn operator **0632**
country surveyor **2154**
county attorney **4112**
county clerk **0012**
county court clerk **1443**
county court judge **4111**
county court registrar **1227**
county engineer **2131**
county judge **4111**
coupler – railway yard **7431**
coupon clerk – financial sector **1434**
courier **1463**
courier driver **7414**
courier service delivery person **1463**
courier service driver **7414**
courier service manager **0132**
courier service parcels deliverer **1463**
courier service supervisor **1214**
courier services sales representative **6411**
courier van driver **7414**
course co-ordinator **1441**
court administrator **1227**
court and tribunal agent **4211**
court bailiff **6461**
court clerk **1443**
court clerk supervisor **1227**
court clerk-crier **1443**
court deputy administrator **1227**
court enforcement officer **6461**
court interpreter **5125**
court martial judge **0643**
court monitor **1244**
court of appeal registrar **1227**
Court of Queen's Bench justice **4111**
court officer **1227**
court recorder **1244**
court registrar **1227**
court reporter **1244**
court reporters supervisor **1211**
court reporting instructor – college or vocational institute **4131**
court services manager **1227**
court stenographer **1244**
court supervisor **1227**
courtesy desk clerk **1453**
courtroom clerk **1443**
courtroom officer **1227**
couturier – haute couture **5243**
cover designer **5241**
cover page illustrator **5241**
coverage and interpretation officer – taxation **1228**
covered button maker **9517**

coverer, furniture panels – furniture assembly **9619**
coverer, luggage **9619**
coverer, rubber V-belts **9423**
coverer, slip seats – furniture assembly **9619**
covering machine operator – printing **9473**
covering-machine tender **9441**
cowboy/cowgirl **8431**
cow-calf operator **8251**
cowhand **8431**
cowherd **8431**
cowpuncher **8431**
coxswain **5251**
Cped (certified pedorthist) **3219**
CPO (certified prosthetist and orthotist) **3219**
CRA (Canadian residential appraiser) **1235**
crab butcher – fish processing **9463**
crab fisherman/woman **8262**
crab steamer – fish processing **9463**
crabber – textile manufacturing **9443**
crabbing machine tender **9443**
crabbing machine tender – textile manufacturing **9443**
cracker and cookie machine operator **9461**
cracker operator – rubber products manufacturing **9423**
cracking plant operator **9232**
craft school manager **0651**
craft weaver **5244**
crafts instructor (except education) **5244**
crafts teacher – elementary school **4142**
craftsman/woman **5244**
craftsperson **5244**
crane and claw operator – logging **8241**
crane and hoisting equipment operator **7371**
crane chaser **7611**
crane crew foreman/woman **7217**
crane fitter **7316**
crane greaser **7443**
crane hoist operator **7371**
crane hooker **7611**
crane inspector **2262**
crane ladle pourer **9411**
crane oiler **7443**
crane operator **7371**
crane operator apprentice **7371**
crane operator, drilling rig **7371**
crane repairer **7312**
crane service technician **7312**
crankshaft assembler – motor vehicle manufacturing **9482**
crash firefighter **6262**
crate bander **9619**
crate builder, wood **9493**
crate liner **9619**
crate maker, wood **9493**
crate marker **9619**
crate packer **9619**
crater **9619**
crater, furniture **9619**
crawler crane operator **7371**
crawler track repairer helper **7612**
crawler track servicer **7443**
crawler tractor operator **7421**
crayon cutter **9619**
crayon making machine tender **9517**
crayon moulder **9619**
cream cheese maker **9461**
cream grader **9465**
cream inspector **2222**
cream sampler – food and beverage processing **9617**
creaser – garment and fabric **9517**
creaser – paper converting **9435**
credit agency inspector **1114**
credit analyst **1232**
credit and accounts manager **0122**
credit and collection clerk **1435**
credit and collection department manager **0122**
credit and collection manager **0122**
credit and collection supervisor **1212**
credit application clerk – financial sector **1434**
credit approval and market development manager **0122**
credit area co-ordinator **0122**
credit assessment clerk **1441**
credit authorization clerk **1434**
credit bureau sales representative **6411**
credit card authorization clerk **1441**
credit card centre manager **0122**
credit card company operations manager **0122**
credit card die-cutter operator – printing **9473**
credit clerk **1434**
credit clerks supervisor **1212**
credit investigation officer **1232**
credit investigator **1232**
credit manager **0122**
credit officer **1232**
credit register clerk **1434**
credit service group leader **1212**
credit supervisor **1212**
credit union executive director **0013**
credit union general manager **0013**
credit union manager **0122**

credit union teller **1433**
credit unions examiner **1114**
creeler – textile processing **9616**
cremator **6683**
crematorium attendant **6683**
crematorium manager **0651**
creping machine operator – paper converting **9435**
creping machine operator helper **9619**
crest designer **5243**
crester **9496**
crew chief – aircraft maintenance **7216**
crew chief, greenhouse workers **8256**
crew chief, nursery workers **8256**
crew dispatcher **1476**
crew leader – forest fire suppression **2223**
crew person, forestry **8422**
crew scheduler – aeronautics **1476**
crew scheduler – railway transport **1476**
crew scheduler, transportation **1476**
crew schedules supervisor **1215**
crewman/woman – military **6464**
crewman/woman, fishing vessel **8441**
crewman/woman, forest fire suppression **8422**
crewman/woman, forestry **8422**
crewperson, custom harvest **8431**
cribber – grain elevator **7452**
crier **6623**
crime prevention constable **6261**
crime scene technician – police **6261**
criminal court clerk **1443**
criminal lawyer **4112**
criminal-law clerk **4211**
criminal-law legal assistant **4211**
criminal-law paralegal **4211**
criminologist **4169**
criminology professor – university **4121**
crimp setter **9441**
crimper **9441**
crimping head operator – papermaking **9433**
crimping machine feeder – wire products manufacturing **9516**
crimping machine operator, wires **9516**
crimping machine tender – electrical equipment manufacturing **9487**
crimping machine tender – leather products manufacturing **9517**
crimping machine tender – textile manufacturing **9441**
crisis counsellor **4153**
crisis intervention worker **4212**
critic **5123**
critical care medicine physician **3111**
critical care medicine specialist **3111**
critical care nurse **3152**
critical care nursing supervisor **3151**
critical care paramedic **3234**
crochet machine operator **9442**
crocheter, hand **5244**
crocheting machine operator **9442**
crop certification inspector **2222**
crop duster **2271**
crop dusting contractor **8252**
crop dusting service manager **8252**
crop farm labourer **8611**
crop farmer **8251**
crop harvesting contractor **8252**
crop harvesting service manager **8252**
crop production technician **2221**
crop scientist **2121**
crop specialist **2123**
cropping machine tender – textile manufacturing **9443**
crop-research scientist **2121**
cropsprayer machine operator **8431**
cross head operator – rubber products manufacturing **9423**
crosscut saw operator – woodworking **9513**
crossing attendant – railway **7622**
crossing gateman/woman – railway transport **7622**
crossing guard **6651**
crossword puzzle maker **5121**
croupier – casino **6443**
croupier, baccarat **6443**
croupier, blackjack **6443**
croupier, pai gow **6443**
croupier, pai gow domino **6443**
croupier, pai gow poker **6443**
croupier, poker **6443**
croupier, roulette **6443**
croupier, sic bo **6443**
croupier, super pan 9 **6443**
croupier, twenty-one **6443**
crown and bridge dental technician **3223**
Crown assets distribution officer **1221**
Crown attorney **4112**
Crown corporation counsel **4112**
Crown counsel **4112**
Crown lands forester **2122**
Crown prosecutor **4112**
croze machine operator – woodworking **9513**
crucible furnace operator **9231**
crucible pourer **9411**

cruise line passenger attendant **6672**
cruiser **2223**
cruising technician – forestry **2223**
crusher and blender operator **9411**
crusher control room operator **9231**
crusher operator – stone products **9414**
crusher operator – tobacco processing **9464**
crusher operator – underground mining **8411**
crusher setter **9411**
crusher tender – chemical processing **9421**
crusherman/woman – underground mining **8411**
crushing and grinding operations foreman/woman – primary metal and mineral products processing **9211**
crushing and grinding supervisor – primary metal and mineral products **9211**
crushing equipment operator **9411**
crushing machine tender – food and beverage processing **9461**
crushing operations helper – mineral products processing **9611**
crutcher operator – chemical processing **9421**
crutcher operator helper **9613**
cryogenics engineer **2132**
cryogenics physicist **2111**
cryolite recovery equipment operator **9411**
cryonics engineering technologist **2232**
cryptanalyst **2161**
cryptoanalyst **2161**
cryptographer **2161**
cryptographer – military **2161**
crystal ball reader **6484**
crystal calibrator – electronic equipment manufacturing **9483**
crystal final tester – electronic equipment manufacturing **9483**
crystal finisher – electronic equipment manufacturing **9483**
crystal frequency measurer – electronic equipment manufacturing **9483**
crystal grower **9483**
crystal inspector – electronic equipment manufacturing **9483**
crystal lapper **9483**
crystal physicist **2111**
crystal processing foreman/woman – electronics manufacturing **9222**
crystal unit assembler **9483**
crystal-dicing saw operator **9483**
crystallizer tender – chemical processing **9421**
crystallizer tender – food and beverage processing **9461**
CSD (customer service director) – transportation **6432**
CSIS (Canadian Security Intelligence Service) investigator **6261**
CTC (centralized traffic control) operator – railway traffic **2275**
CTMP (chemi-thermomechanical pulp) machine assistant operator **9432**
CTMP (chemi-thermomechanical pulp) operator **9233**
cube sugar machine tender – food and beverage processing **9461**
cucumber picker **8611**
cuff-cutting machine tender **9452**
culinary journalist **5123**
cultivator operator **8431**
cultural activities leader **5254**
cultural anthropologist **4169**
cultural geographer **4169**
cultural interpreter **5125**
cultural or international adaptation specialist **5125**
cupola charger – primary metal and mineral processing **9611**
cupola furnace helper **9611**
cupola furnace operator – foundry **9412**
cupola furnace operator – primary metal processing **9231**
cupola operator – concrete, clay and stone products **9414**
cupola spray reliner **7611**
cupola tapper **9611**
curate **4154**
curator **5112**
curator-director – museum **0511**
curatorial assistant **5212**
curb builder, manual **7611**
cure operator – rubber products manufacturing **9423**
cured tire repairer **9423**
curer, fish – fish processing **9463**
curer, rubber **9423**
curer, rubber flaps **9423**
curer, rubber V-belts **9423**
curer, tobacco **8431**
curing bin tender – food and beverage processing **9461**
curing foreman/woman – rubber manufacturing **9214**
curing machine operator – rubber products manufacturing **9423**
curing man/woman – rubber products manufacturing **9423**

curing press set-up operator – rubber products manufacturing **9423**
curing press tender – rubber products manufacturing **9423**
curing room foreman/woman – tobacco processing **9213**
curing supervisor – rubber products manufacturing **9214**
curling judge **5253**
curling player **5251**
currency exchange cashier **6611**
currency sorter **1431**
current account representative – financial services **1433**
current accounts supervisor **1212**
current schedule planning manager – airline **0713**
current-transformer assembler **9485**
current-transformer coil winder **9485**
curriculum consultant **4166**
curriculum developer **4166**
curriculum planner **4166**
curtain and drapery presser – laundry and dry cleaning **6682**
curtain rod assembler **9498**
curtain wall glazier **7292**
cushion and cover inspector **9454**
cushion and furniture-coverings manufacturing inspector **9454**
cushion cementer – shoe manufacturing **9619**
cushion filler – furniture assembly **9619**
cushion stuffer – furniture assembly **9619**
custodian **6663**
custodian building **6663**
custodian supervisor – cleaning services **6215**
custodian, athletic equipment **6671**
custodian, jockey room **6671**
custodian, sports equipment **6671**
custom bracelet maker **7344**
custom brooch maker **7344**
custom combine contractor **8252**
custom combine operator **8252**
custom cue maker and repairer **9513**
custom cue maker and repairman/woman **9513**
custom desk maker, wood **7272**
custom drapery salesperson – retail **6421**
custom electrical panel assembler **9485**
custom feed miller – food and beverage processing **9461**
custom feed miller helper **9617**
custom feed preparer – food and beverage processing **9461**
custom frame and mirror assembler **7272**
custom fur joiner **7342**
custom furniture caner **5244**
custom furrier **7342**
custom golf club maker **9498**
custom harvest crewperson **8431**
custom harvester **8252**
custom jewellery mounter **7344**
custom locket maker **7344**
custom moulder – foundry **9412**
custom operator, farm machinery **8252**
custom piano case maker **7272**
custom screw machine operator **9511**
custom sewer, women's garments **7342**
custom sheet metal fabricator **7261**
custom shoemaker **7343**
custom tailor **7342**
custom tailoring shop manager **0621**
custom upholsterer **7341**
custom wood furniture maker **7272**
custom wooden desk maker **7272**
customer accounts supervisor **1212**
customer information service representative – retail **1453**
customer relations clerk **1453**
customer sales agent – airline **6433**
customer sales and service agent (except airline) **6434**
customer satisfaction representative **1453**
customer service adviser **1453**
customer service agent **1453**
customer service agent – bus line **6434**
customer service agent, airline **6433**
customer service assistant **1453**
customer service cashier **6611**
customer service clerk **1453**
customer service clerk – insurance **1453**
customer service clerk – retail **1453**
customer service clerks supervisor (except financial institutions) **1213**
customer service director (CSD) – transportation **6432**
customer service manager – automobiles **0621**
customer service manager – retail **0621**
customer service managing supervisor **0621**
customer service monitor – telephone system **1424**
customer service officer, bank **1433**
customer service operator – telephone system **1424**
customer service representative – airline **6433**
customer service representative – bus line **6434**

customer service representative – financial services **1433**
customer service representative – insurance **1453**
customer service representatives supervisor – financial services **1212**
customer service sales clerk **6421**
customer service supervisor – housing construction **7219**
customer service supervisor – retail **6211**
customer service supervisor (except financial services) **1213**
customer services representative – call centre **1453**
customer support representative – wholesale **6221**
customs and excise clerk **1441**
customs and excise examiner **1228**
customs appraiser **1228**
customs baggage inspector **1228**
customs broker **1236**
customs brokerage clerks supervisor **1212**
customs clearance agent **1236**
customs clerk **1441**
customs clerks supervisor **1211**
customs collector **1228**
customs consultant **1236**
customs examiner **1228**
customs house broker **1236**
customs house manager **0123**
customs information broker **1236**
customs inspection supervisor **1228**
customs inspector **1228**
customs inspectors supervisor **1228**
customs investigator **1228**
customs manager – government services **0412**
customs officer **1228**
cutlery and tool etcher **9511**
cutlery assembly inspector **9498**
cutlery maker **9517**
cutlery maker operator **9517**
cutlery manufacturing foreman/woman **9227**
cut-off saw operator – sawmill **9431**
cut-off saw operator – woodworking **9513**
cut-off sawyer, timber – sawmill **9431**
cut-off sawyer, veneer strips – wood processing **9434**
cut-out and marking machine tender – shoe manufacturing **9619**
cut-pile clerk **1413**
cutter – leather products manufacturing **9452**
cutter – logging **8421**
cutter – meat packing plant **9462**
cutter and former, bullets – metal products manufacturing **9516**
cutter and former, insulation – electrical equipment manufacturing **9484**
cutter and reamer, cores – pulp and paper **9433**
cutter helper – pulp and paper **9614**
cutter operator – concrete, clay and stone products **9414**
cutter operator – other products manufacturing **9517**
cutter operator – printing **9473**
cutter, aluminum sheet – ductwork **9514**
cutter, asbestos shingles **9414**
cutter, bricks – clay products **9414**
cutter, carbon paper **9435**
cutter, cordwood **8421**
cutter, cores – paper converting **9435**
cutter, corrugated boxes – paper converting **9435**
cutter, designs – jewellery manufacturing **7344**
cutter, disks – wood products manufacturing **9513**
cutter, eyeglass frames **9498**
cutter, films – film processing **9619**
cutter, fish – fish processing **9463**
cutter, floorcovering insets – plastic manufacturing **9495**
cutter, granite **9414**
cutter, grass **8612**
cutter, grave markers – stone products **9414**
cutter, guillotine – printing **9473**
cutter, hat brims – fabric products manufacturing **9498**
cutter, heels – rubber footwear manufacturing **9423**
cutter, labels – paper converting **9435**
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cutter, millstones – stone products **9414**
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cutter, negatives – film processing **9474**
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cutter, padding – furniture assembly **9619**
cutter, plastics **9495**
cutter, poles **8421**
cutter, posts **8421**
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cutter, revenue stamps **9435**
cutter, rubber **9423**
cutter, rubber boots **9423**
cutter, shingles – sawmill **9431**
cutter, shoe parts – footwear manufacturing **9452**

cutter, silkscreen stencils **5223**
cutter, slate **9414**
cutter, stencils – stone products **9414**
cutter, stock – woodworking **9513**
cutter, stonework stencils **9414**
cutter, tiles **9619**
cutter, tobacco leaf **9464**
cutter, wood – logging **8421**
cutting and creasing press operator – paper converting **9435**
cutting and printing machine set-up operator – textile manufacturing **9443**
cutting department foreman/woman – fabric, fur and leather products manufacturing **9225**
cutting department foreman/woman, fabric **9225**
cutting machine **9517**
cutting machine fixer – textile manufacturing **7317**
cutting machine operator – clothing manufacturing **9452**
cutting machine operator – printing **9473**
cutting machine operator – underground mining **8231**
cutting machine operator, books **9473**
cutting machine operator, rubber **9423**
cutting machine tender – textile products manufacturing **9517**
cutting room foreman/woman – fabric, fur and leather products manufacturing **9225**
cyber-choreographer **5131**
cybergraphic designer **5241**
cyberjournalist **5123**
cyberreporter **5123**
cybrarian **5111**
cycling coach **5252**
cyclist **5251**
cylinder engraver, printing **9472**
cylinder grinder – metal machining **9511**
cylinder head assembler **9486**
cylinder honer – metal machining **9511**
cylinder machine operator – pulp and paper **9234**
cylinder painter – industrial **9496**
cylinder painter – printing **9472**
cylinder plater-grinder – metal processing **9497**
cylinder preparer – printing **9472**
cylinder preparer, carbon tissue – printing **9472**
cylinder press operator – printing **7381**
cylinder press set-up operator **7381**
cylinder pressman/woman – printing **7381**
cylinder printing press set-up operator **7381**
cylinder roll fabricator **9516**
cylinder saw tender – woodworking **9513**
cylinder-impresser operator **9472**
cylinder-sander feeder – woodworking **9513**
cytochemist **2121**
cytogeneticist **2121**
cytogenetics technologist – medical laboratory **3211**
cytologist **2121**
cytologist-microbiologist **2121**
cytology technician **3212**
cytology technologist **3211**
cytotechnologist – medical laboratory **3211**

D

D.O. (osteopath) **3123**
D.O.M.P. (osteopath) **3123**
dado operator – woodworking **9513**
dado operator, overhead – woodworking **9513**
dado saw operator – woodworking **9513**
dairy bacteriologist **2121**
dairy cattle breeder **8251**
dairy chemist **2112**
dairy cream tester **9465**
dairy equipment repairer **7311**
dairy farm foreman/woman **8253**
dairy farm labourer **8431**
dairy farm manager **8251**
dairy farm worker **8431**
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dairy farmer **8251**
dairy grader – food and beverage processing **9465**
dairy hand **8431**
dairy helper **9617**
dairy herdsperson **8253**
dairy moisture tester **9465**
dairy plant engineer **2148**
dairy plant foreman/woman **9213**
dairy plant machine operator **9461**
dairy plant manager **0911**
dairy product tester – food and beverage processing **9465**
dairy products inspector **2222**
dairy products processing foreman/woman **9213**
dairy products specialty maker **9461**
dairy products technician **2221**
dairy route salesman/woman **7414**
dairy sampler – food and beverage processing **9617**
dairy scientist **2121**
dairy technologist **2221**
dairy tester – food and beverage processing **9465**
dam construction inspector **2264**

damage repair estimator, automobile **7322**
dampproofer helper **7611**
dams engineer **2131**
dance company director **0512**
dance instructor **5134**
dance notator **5134**
dance school manager **0651**
dance teacher **5134**
dance therapist **3144**
dance therapists' supervisor **3144**
dance therapy researcher **3144**
dance videographer **5222**
dance-movement therapist **3144**
dance-movement therapy researcher **3144**
dancer **5134**
dancing instructor **5134**
dangerous goods inspector – railway transport **2263**
dangerous waste inspector **2263**
Danish seine fisherman/woman **8262**
darkroom technician – photographic processing **9474**
data administrator **2172**
data analyst – informatics and systems **2172**
data centre manager **0213**
data centre operator **2281**
data communications specialist **2147**
data control clerk **1422**
data control supervisor **1211**
data custodian **2172**
data dictionary administrator **2172**
data entry clerk **1422**
data entry clerks supervisor **1211**
data entry operator **1422**
data entry supervisor **1211**
data entry verifier-operator **1422**
data input clerk **1422**
data miner **2172**
data processing and systems analysis manager **0213**
data processing consultant **2171**
data processing control clerk **1422**
data processing director **0213**
data processing manager **0213**
data processing planning manager **0213**
data processing specialist **2172**
data processing teacher – secondary school **4141**
data processing verifier **1422**
data processor **1422**
data warehouse analyst **2172**
database administrator (DBA) **2172**
database analyst (DBA) **2172**
database architect (DBA) **2172**
database designer **2172**
database librarian **5111**
database management supervisor – computer systems **2172**
database manager **2172**
data-processing teacher – college or vocational institute **4131**
dating agency consultant **6484**
dating service consultant **6484**
day camp counsellor – recreation **5254**
day camp leader **5254**
day clerk – hotel **6435**
day-care aide **4214**
day-care attendant **4214**
day-care co-op co-ordinator **4214**
day-care co-ordinator **4214**
day-care helper **4214**
day-care planning services director – government services **0411**
day-care supervisor **4214**
day-care teacher **4214**
day-care worker **4214**
day-care worker assistant **4214**
daylighter **7411**
DBA (database administrator) **2172**
DBA (database analyst) **2172**
DBA (database architect) **2172**
DBS (direct broadcast satellite) technician – cable television **7247**
DC (doctor of chiropractic) **3122**
deacon – religion **4217**
deaconess **4217**
deaf interpreter **5125**
dealer – retail **0621**
dealer, antiques **0621**
dealer, foreign exchange **1113**
dealer, gambling casino **6443**
dealers supervisor, gambling casino **6443**
dean – university or college **0312**
dean of adult education **0312**
dean of graduate studies **0312**
dean of science **0312**
dean of student activities **0312**
dean of technical and technological programs **0312**
dean, adult education **0312**
dean, community college **0312**
dean, faculty of arts **0312**
dean, faculty of science **0312**
dean, graduate studies **0312**
dean, school of nursing **0312**

dean, school of technology **0312**
dean, student activities **0312**
death benefits clerk **1434**
debarker operator – wood processing **9434**
deburrer – clock and watch manufacturing **9619**
deburrer – metal products manufacturing **9612**
decal applier **9496**
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deck officer – water transport **2273**
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deckhand, seiner **8441**
deckhand, shellfish harvester **8441**
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decorating consultant – retail **6421**
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decorating foreman/woman – construction **7219**
decorating kiln operator – clay products **9414**
decorating machine tender – clay products **9414**
decoration maker, hats **9498**
decorations painter – visual arts **5136**
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decorator, shoes – footwear manufacturing **9498**
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deed recorder **1227**
deed registrar **1227**
deep-sea diver **7382**
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delivery clerk **1471**
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delivery drivers supervisor **7222**
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delivery person supervisor **6211**
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delivery salesperson **7414**
delivery service manager **0123**
delivery services sales agent **6411**
delivery services sales representative **6411**
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delivery truck helper **7622**
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demolition crane operator **7371**
demolition driver **5251**
demolition foreman/woman **7217**
demolition worker **7611**
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demonstrator, Department of Agriculture **2123**
demonstrator, laboratory – postsecondary **4122**
demurrage clerk **1431**
denominational institute teacher **4131**
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dental amalgam processor **9411**
dental assistant **3411**

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dental assistant program teacher – community college **4131**
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dental ceramist **3223**
dental claims clerk **1434**
dental clinical assistant **3411**
dental clinical assistant – military **3411**
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dental equipment and supplies salesperson **6221**
dental equipment installer-servicer **7441**
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dental health consultant **4165**
dental health services administrator **0311**
dental hygiene technician **3222**
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dental hygienist program teacher – college or vocational institute **4131**
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dental laboratory bench worker **3223**
dental laboratory managing supervisor **0311**
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dental office receptionist **1414**
dental officer – military **3113**
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dental receptionist **1414**
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dental technician **3223**
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dental technician supervisor **3223**
dental technologist **3223**
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denture setter **3223**
denture set-up man/woman **3223**
denture technician **3221**
denture therapist **3221**
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department head, dental hygienist program **4131**
department head, food sciences – university **4121**
department head, geography – university **4121**
department head, linguistics – university **4121**
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department head, retail store **6211**
department head, secondary school **4141**
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department head, trades programs department – college **4131**
department head, visual arts – university **4121**
department manager – department store **0621**
department manager – retail **0621**
department manager, collections **0111**
department manager, security **0114**
department store clerk **6421**
department store information clerk **1453**
department store manager **0621**
department store president **0015**
department store supervisor **6211**

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departmental accountant **1111**
departmental solicitor **4112**
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depilator, wax **6482**
depiler helper – primary metal processing **9611**
deposit clerk **1431**
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deputy chief executive officer – financial, communications and other business services **0013**
deputy chief executive officer – goods production, utilities, transportation and construction **0016**
deputy chief executive officer – health, education, social and community services and membership organizations **0014**
deputy chief executive officer (CEO) – trade, broadcasting and other services **0015**
deputy chief executive officer, life insurance company **0013**
deputy chief of police **0641**
deputy city solicitor **4112**
Deputy Clerk of the House of Commons **0414**
Deputy Clerk of the Legislative Assembly **0414**
deputy commissioner – government services **0012**
deputy court registrar **1227**
deputy fire chief **0642**
deputy justice **4111**
deputy land registrar **1227**
deputy librarian **0511**
deputy minister – government services **0012**
deputy municipal clerk **0012**
deputy police chief **0641**
deputy provincial secretary – government services **0012**
deputy registrar – courts **1227**
deputy returning officer **4168**
deputy sheriff **6461**
deputy superintendent – schools **0313**
dermal therapist **6482**
dermatologist **3111**
dermatology, chief of **0311**
derrick mechanic **7311**
derrick worker – oil and gas drilling **8412**
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design and development engineer, electrical and electronic systems **2133**
design and drafting technologist **2253**
design and lettering stamper – printing **9473**
design assistant – advertising production **5223**
design checker, drafting **2253**
design cutter – jewellery **7344**
design draftsperson **2253**
design engineer – mechanical **2132**
design engineer, aircraft **2146**
design engineer, electrical **2133**
design engineer, electrical power systems **2133**
design engineer, oil well equipment **2132**
design engineer, radio and television broadcasting systems **2133**
design engineer, software **2173**
design sales representative – wholesale **6411**
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designated ship broker **1236**
designer – interior design **5242**
designer – theatre **5243**
designer and script writer **5121**
designer, clothing **5243**
designer, database **2172**
designer, displays **5243**
designer, exhibits **5243**
designer, form layouts **5241**
designer, furniture **2252**
designer, heating **2232**
designer, industrial **2252**
designer, industrial products **2252**
designer, machines **2232**
designer, mechanical engineering equipment **2232**
designer, mould **2232**
designer, museum **5243**
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designer, software **2173**
designer, textile **5243**
designer, tools and die **2232**
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desk assembly foreman/woman – furniture and fixtures manufacturing **9224**
desk clerk, hotel **6435**
desk officer – police **6261**
desk sander – woodworking **9513**
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desktop publishing (DTP) operator **1423**
desktop publishing (DTP) specialist **1423**

desktop publishing supervisor **1211**
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dessert maker **6641**
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desulphurizer operator **9232**
detail assembler – aircraft assembly **9481**
detail draftsperson **2253**
detail inspector – aircraft assembly **9481**
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detective agency manager **0123**
detective inspector – police **0641**
detective sergeant – police **0641**
detective, counterfeit and forgery section **6261**
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detective, private **6465**
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detention centre director **0314**
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detergent chemist **2112**
detonator and fuse assembler **9498**
detonator assembler **9498**
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developer, photos **9474**
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development geologist **2113**
development mechanic – aircraft assembly **9481**
development miner **8231**
development service worker **4212**
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diagnostic cardiac sonographer **3216**
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diagnostic imaging technologist **3215**
diagnostic imaging, chief of **0311**
diagnostic instrument sales representative **6221**
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diagnostic medical sonographer **3216**
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diagnostic medical sonography instructor **3216**
diagnostic radiography technologist **3215**
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diagnostic radiological technologist **3215**
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diagnostic radiology technologist **3215**
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diagnostic ultrasound supervisor **3216**
diagnostic ultrasound technician **3216**
diagnostic ultrasound technologist – medical **3216**
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dial plant superintendent – telecommunications **0131**
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dialysis nurse **3152**
dialysis technician **3219**
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diamond drill operator – surface mining and quarrying **7372**
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diamond powder blender **9411**
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die casting supervisor **9211**
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diesel engine operator, stationary **7351**
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diesel engine tester **9486**
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diesel locomotive repairman/woman **7312**
diesel mechanic **7312**
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diesel mechanic apprentice **7312**
diesel mechanic helper **7612**
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diesel station operator **7352**
diesinking machine set-up operator **9511**
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dietary aide **6641**
dietary cook **6242**
dietary technician **3219**
dietary technologist **3219**
dietetic consultant **3132**
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dietetics office clerk – hospital **1441**
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dietitian, community **3132**
dietitian, consultant **3132**
dietitian, professional **3132**
dietitian, registered **3132**
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digester field operator **9233**
digester operator – chemical processing **9421**
digester operator – primary metal and mineral processing **9411**
digester operator – pulp and paper **9233**
digester tender – pulp and paper **9432**
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digital computer operator **2281**
digital effects specialist **5225**
digital electronics technician **2241**
digital graphic design technician **5223**
digitizer operator – textile, leather and fur products **5245**
dimension planer operator – woodworking **9513**
dinghy assembler **9491**
dingman/woman – autobody **7322**
dining car steward **6453**
dining car waiter/waitress **6453**
dining establishment managing supervisor **0631**
dining room assistant **6641**
dining room attendant **6641**
dining room captain **6453**
dining room cashier **6611**
dining room host/hostess **6451**
dining room manager **0631**
dining room steward **6453**
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diorama technician **5212**
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dipper, coating tank **9496**
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dipper, enamel **9496**
dipper, shoe parts **9619**
dipper-baker **9496**
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dipping machine tender – rubber products manufacturing **9423**
dipping tank operator **9496**
dipping tank tender **9496**
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direct distributor – retail **6623**
direct fire support vehicle driver **6464**
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direct sales instructor **4131**
direct seller **6623**
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directional drilling operator – oil and gas drilling **8232**
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director – motion pictures, broadcasting and performing arts **5131**
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director engineering service, safety service **0211**
director general – government services **0012**
director general – health, education, social and community services and membership organizations **0014**
director general, sport federation **0513**
director general, teachers' association **0314**
director market analysis director – government services **0412**
director of a sports federation **0513**
director of accounting **0111**
director of admissions – postsecondary education **0312**
director of architecture **0212**
director of audiology and speech language pathology **0311**
director of clinical medicine **0311**
director of conservation, museum **0511**
director of counselling **0314**

director of dietetics **0311**
director of education – public administration **0413**
director of education, correctional institution **0313**
director of fitness administration – government **0513**
director of guidance services **0314**
director of laboratory medicine **0311**
director of leisure **0513**
director of leisure and sports **0513**
director of logistics – transportation **0713**
director of mining **0811**
director of mining operations **0811**
director of nursing – medical services **0311**
director of occupational therapy **0311**
director of operations – housing department **0314**
director of operations, manufacturing **0911**
director of operations, transportation **0713**
director of photography **5131**
director of physiotherapy **0311**
director of professional services – medical services **0311**
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director of recreation **0513**
director of recreation and sports **0513**
director of research – forestry **0212**
director of research – manufacturing **0212**
director of research – mining **0212**
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director of school for the blind or deaf **0313**
director of school for the hearing impaired **0313**
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director of school services **0413**
director of sports administration – government **0513**
director of sports and leisure **0513**
director of sports and recreation **0513**
director of student affairs **0312**
director of studies – college **0312**
director of surgery **0311**
director of technology management **0213**
director of traffic **0713**
director of transportation **0713**
director of waste management **0912**
director of water pollution control **0912**
director, accounting and financial control **0111**
director, adjustment programs – government services **0411**
director, administration and property management services **0114**
director, administrative services **0114**
director, adult education services **0413**
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director, agricultural representatives **0212**
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director, art gallery **0511**
director, audit and compliance **0111**
director, ballet company **0512**
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director, broadcasting **5131**
director, budget and sectoral profitability **0111**
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director, business development – government services **0412**
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director, Cabinet relations **0414**
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director, career development – government services **0411**
director, career information – government services **0411**
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director, commercial analysis – government services **0412**
director, communications **0611**
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director, community economic development – government services **0412**
director, community planning – government services **0411**
director, community programs **0314**
director, community services **0314**
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director, consumer information **0314**
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director, correctional services **0314**
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director, distribution network – utilities **0912**
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director, economic development – government services **0412**
director, economic policy analysis – government services **0412**
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director, education policy analysis and research **0413**
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director, elections expenses **0414**
director, elections finances **0414**
director, elections planning **0414**
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director, emergency responses services **0414**
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director, employment equity – human resources **0112**
director, employment equity programs – government services **0411**
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director, family resources **0314**
director, family services – government services **0411**
director, farm products marketing – government services **0412**
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director, finance and administration **0114**
director, financial evaluations **0111**
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director, financing and administration **0111**
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director, fishery policy – government services **0412**
director, fitness administration – government **0513**
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director, health information and promotion – government services **0411**
director, health services – government services **0411**
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director, home care services – government services **0411**
director, homemaker services – government services **0411**
director, horse racing **0513**
director, hotel **0632**
director, housekeeping services – government services **0411**
director, housing policy and development – government services **0411**
director, human resources **0112**
director, human resources development **0112**
director, human resources development and planning **0112**
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director, information systems development **0213**
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director, language training **0112**
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director, legislative services **0414**
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director, leisure and sports **0513**
director, leisure centre **0513**
director, leisure establishment **0513**
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director, mathematics department **0212**
director, media relations **0611**
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director, natural resources policy – government services **0412**
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director, occupational training – government services **0411**
director, occupational training – human resources **0112**
director, oceanographic research **0212**
director, opera company **0512**
director, operational planning **0114**
director, organizational methods analysis **0123**
director, organizational methods analysis – business services **0123**
director, organizational planning and development **0123**
director, parks administration **0412**
director, parliamentary services **0414**
director, passenger service **6432**
director, pay and benefits **0112**
director, pay services – human resources **0112**
director, pay-processing division – government services **0112**
director, personnel **0112**
director, personnel and industrial relations **0112**
director, personnel services **0112**
director, pharmacy **0311**
director, physical education programs **0513**
director, physical training **0513**
director, policy and planning – education programs **0413**
director, postsecondary education **0413**
director, postsecondary education – public administration **0413**
director, private vocational school **0312**
director, procurement operations **0113**
director, professional development – government services **0411**
director, protection services – government services **0411**
director, psychological services **0314**
director, psychology – health care **0311**
director, public affairs **0611**
director, public health nursing services **0311**
director, public relations **0611**
director, publishing house **0512**
director, purchasing **0113**
director, quality control – chemistry **0212**
director, racetrack **0513**
director, radio **5131**

director, radio station operations **0512**
director, recreation **0513**
director, recreation and sports **0513**
director, recreation centre **0513**
director, recreation establishment **0513**
director, recreation programs **0513**
director, recreation service **0513**
director, recruiting **0112**
director, regional communications **0611**
director, rehabilitation services – medical services **0311**
director, religious education **0314**
director, rural housing programs – government services **0411**
director, sales agency marketing division **0611**
director, sales and marketing **0611**
director, school inspection – public administration **0413**
director, school of nursing **0312**
director, school of technology **0312**
director, school services – public administration **0413**
director, second language program **0413**
director, secondary school education **0413**
director, secondary school programs **0413**
director, secretarial college **0312**
director, settlement programs – government services **0411**
director, sewage treatment system **0912**
director, social planning – government services **0411**
director, social services – government services **0411**
director, social services policy, planning and research – government services **0411**
director, social surveys – government services **0411**
director, social work **0314**
director, social work – government services **0411**
director, software engineering **0213**
director, special education programs **0413**
director, sport association **0513**
director, sports **0513**
director, sports administration – government **0513**
director, sports and leisure **0513**
director, sports and recreation **0513**
director, sports programs **0513**
director, sports-service sports programs **0513**
director, stage – performing arts **5131**
director, statistical department **0212**
director, student assistance program **0413**
director, supply management **0113**
director, survey research – government services **0411**
director, taxation programs **0412**
director, technical school **0312**
director, television **5131**
director, theatre company **0512**
director, therapeutic services – psychiatric hospital **0311**
director, tourism development – government services **0412**
director, tourism promotion – government services **0412**
director, track and field **0513**
director, trade development – government services **0412**
director, trade liaison – government services **0412**
director, trade school **0312**
director, training institute **0312**
director, transmission operations – utilities **0912**
director, transportation management **0713**
director, transportation policy – government services **0412**
director, urban planning and development – government services **0212**
director, urban planning and renewal – government services **0212**
director, veterans' services **0314**
director, videos **5131**
director, vocational education – government services **0411**
director, vocational school **0312**
director, vocational training – government services **0411**
director, vocational training – human resources **0112**
director, volunteer services **0314**
director, waste water treatment system **0912**
director, water department **0912**
director, water supply **0912**
director, welfare organization **0314**
director, welfare services – government services **0411**
director, welfare services administration – government services **0411**
director, young offender services **0314**
director, zoological garden **0212**
director, zoological park **0212**
director-treasurer – financial services **0111**
directory assistance operator **1424**
directory clerk **1452**
directory compiler **1452**
dirigible pilot **6442**

disability benefits clerk – insurance **1434**
disability case manager – human resources **1121**
disability claims examiner – insurance **1233**
disability consultant **4153**
disability management coordinator **1121**
disability management practitioner **1121**
disability management professional **1121**
disability management specialist **1121**
disability management worker **4212**
disaster relief claims adjuster – insurance **1233**
disaster relief services co-ordinator **0414**
disbursement clerk **1431**
disc flanging operator – metal fabrication **9514**
disc jockey **5231**
discharge door attendant **9411**
discount broker **1113**
discount clerk – financial sector **1434**
discus thrower **5251**
discussion group leader – postsecondary **4122**
dish maker – clay products **9414**
dishwasher **6641**
dishwasher assembler **9484**
dishwasher installer **7441**
dishwasher repairer **7332**
dishwashing machine attendant **6641**
disk cutter – wood products **9513**
disk flange operator – metal fabrication **9514**
dismantler, farm machinery **9486**
dispatch logistician **1215**
dispatcher **1475**
dispatcher, 911 **1475**
dispatcher, bus **7222**
dispatcher, fire department **1475**
dispatcher, flights **2272**
dispatcher, gas **9232**
dispatcher, gas service crews **1475**
dispatcher, mail service **1475**
dispatcher, mine **1475**
dispatcher, mobile equipment **1475**
dispatcher, mobile-support equipment operators – military **1475**
dispatcher, motor vehicles **1475**
dispatcher, newspapers **1475**
dispatcher, oil **9232**
dispatcher, oil well services **1475**
dispatcher, plant **1475**
dispatcher, police **1475**
dispatcher, taxis **1475**
dispatcher, tow trucks **1475**
dispatcher, trains **2275**
dispatcher, trucks **1475**
dispatcher, utilities maintenance crews **1475**
dispatchers supervisor **1215**
dispensary assistant **3414**
dispensary department supervisor – hospital **3131**
dispenser, contact lens **3231**
dispenser, ophthalmic devices **3231**
dispenser, optical devices **3231**
dispensing assistant, drugstore **3414**
dispensing audiologist **3141**
dispensing optician **3231**
dispensing optician student **3231**
dispensing opticians office manager **0621**
display advertising sales representative **6411**
display balloon maker **9498**
display design supervisor **5243**
display designer **5243**
display designer – museums and art galleries **5243**
display designers supervisor **5243**
display officer – museums and art galleries **5212**
displays and controls design engineer **2133**
disposal worker – warehouse **7452**
dissolver-precipitator **9232**
distance education program co-ordinator **4166**
distance education project officer **4166**
distillation equipment helper **9613**
distillation equipment helper – chemical processing **9613**
distillation foreman/woman – chemical processing **9212**
distillation operator **9232**
distillation operator, petroleum **9232**
distilled liquors rectifier – food and beverage processing **9461**
distilled liquors stillman/woman – food and beverage processing **9461**
distiller helper – chemical processing **9613**
distiller operator – soda ash processing **9421**
distiller, wood distillation and charcoal **9421**
distillery cooker – food and beverage processing **9461**
distillery foreman/woman **9213**
distillery grinder operator **9461**
distillery manager **0911**
distillery press operator **9461**
distillery presser **9461**
distillery skimmer **9461**
distillery yeast maker – food and beverage processing **9461**
distributing and scheduling supervisor-steward – military **1215**
distribution and maintenance worker – utilities **7442**

distribution and transport logistics technician **1236**
distribution and warehousing manager **0721**
distribution centre manager **0721**
distribution clerk **1471**
distribution construction lineman **7244**
distribution control operator **7352**
distribution control operator – electrical power systems **7352**
distribution director **0721**
distribution manager **0721**
distribution manager – sales **0611**
distribution manager – warehousing **0721**
distribution manager, gas **0912**
distribution manager, refined petroleum products **0912**
distribution network director – utilities **0912**
distribution officer **1215**
distribution operations manager – utilities **0912**
distribution operations manager – warehousing **0721**
distribution planning engineer, electrical **2133**
distribution planning technologist **2241**
distribution services manager **0721**
distribution supervisor **1215**
distribution system dispatcher apprentice – electrical power systems **7352**
distribution system operator **7352**
distribution systems director – utilities **0912**
distributor, freight cars – railway yard **7431**
distributor, railway cars **7431**
district administrator, income security – government services **0411**
district agricultural specialist **2123**
district agronomist **2123**
district and surrogate court judge **4111**
district court judge **4111**
district court registrar **1227**
district director, career development and employment – government services **0411**
district director, professional development and employment – government services **0411**
district director, rural and Native housing services – government services **0411**
district director, social services **0314**
district engineer **2131**
district fire chief **0642**
district forester **2122**
district gas serviceman/woman **7253**
district inspector – fisheries **2224**
district manager – employment insurance **0411**
district manager – telecommunications **0131**
district manager, canteen service **0631**
district manager, grain elevator **6234**
district manager, insurance sales **0121**
district manager, irrigation **0912**
district manager, real estate sales **0121**
district manager, sales (except insurance and real estate) **0611**
district manager, telephone company **0131**
district police chief **0641**
district post office director **0132**
district representative, government agricultural service **2123**
district sales manager, real estate **0121**
district sales representative – wholesale **6411**
district school assistant superintendent **0313**
district school superintendent **0313**
district sheriff **6461**
district supervisor – fisheries **2224**
district supervisor, insurance office **6231**
districtman/woman – telecommunications **7246**
ditch cleaner – construction **7611**
ditch construction inspector **2264**
ditcher operator – construction **7421**
ditching foreman/woman **7217**
ditching machine operator **7421**
diver **7382**
diver helper **7612**
diver, olympic sport **5251**
dividend calculation clerk – financial sector **1434**
dividing machine tender – food and beverage processing **9461**
diving contractor **7382**
diving supervisor **7382**
division administrative manager **0114**
division chief – fire department **0642**
division controller – accounting **1111**
division librarian **0511**
division manager – petroleum distribution **0912**
division superintendent, airline **0713**
division superintendent, railway **0713**
division supervisor, pest control **7219**
divisional diving supervisor – police **6261**
divisional sales manager **0611**
DJ (disc jockey) **5231**
dobby loom drawer-in **9442**
dobby loom weaver **9442**
dock builder-installer **7441**
dock carpenter **7271**
dock foreman/woman – marine cargo **7217**
dock hand **7451**
dockerman/woman – marine cargo handling **7451**
dockman/woman – truck transport **7452**

dockworker – marine cargo handling **7451**
doctor of acupuncture **3232**
doctor of Chinese medicine **3232**
doctor of chiropractic (DC) **3122**
doctor of dental surgery **3113**
doctor of homeopathic therapeutics **3232**
doctor of homeopathy **3232**
doctor of medicine (MD) **3112**
doctor of naturopathic medicine **3123**
doctor of naturopathy **3123**
doctor of optometry (OD) **3121**
doctor of Oriental medicine **3232**
doctor of osteopathic medicine **3123**
doctor of osteopathy **3123**
doctor of podiatric medicine (DPM) **3123**
doctor, family **3112**
doctor, medical **3112**
doctor's office nurse **3152**
doctor's office receptionist **1414**
document restoration technician **5212**
documentalist **1452**
documentalist, business **1452**
documentation and projects analyst **1221**
documentation clerk **1441**
documentation librarian **5111**
documentation technician **5211**
documents clerk **1413**
documents examiner – applied chemistry **2211**
doffer **9616**
dog breeder **8251**
dog catcher **6463**
dog groomer **6483**
dog grooming establishment manager **0651**
dog handler **6483**
dog kennel manager **0651**
dog master **6483**
dog master – police **6261**
dog master trainer **6483**
dog trainer **6483**
dog warden **6463**
dogsledding guide **6442**
doll assembly repairer **9498**
doll hairstylist **9517**
doll maker – manufacturing **9498**
dollmaker, hand **5244**
dolly operator – motion pictures and broadcasting **5227**
dolly pusher – motion pictures and broadcasting **5227**
domestic and rural electrician **7241**
domestic animal breeder **8251**
domestic animal scientist **2121**
domestic banking operations vice-president **0013**
domestic cook **6242**
domestic housekeeper **6471**
domestic maid – cleaning services **6661**
domestic refrigerator repairer **7332**
domestic servant **6683**
domestic sewing machine mechanic **7445**
domestic sewing machine operator **9451**
domestic sewing machine repairer **7445**
domestic window air conditioner mechanic **7332**
domestic window air conditioner repairer **7332**
donut baker **6252**
donut maker **6252**
donut shop attendant **6641**
donut shop clerk **6641**
donut shop counter clerk **6641**
door adjuster – motor vehicle manufacturing **9482**
door and deck lid adjuster – motor vehicle manufacturing **9482**
door and sash assembly foreman/woman **9227**
door and window assembler, aluminum **9498**
door assembler – motor vehicle manufacturing **9482**
door assembler, aluminum **9498**
door assembler, wood **9493**
door attendant **6683**
door finisher – wood products manufacturing **9493**
door fitter – motor vehicle manufacturing **9482**
door frame installer **7611**
door hanger – motor vehicle manufacturing **9482**
door inspector, wood **9493**
door installer **7441**
door installer, aluminum **7441**
door installer, residential **7441**
door maker, wood **9493**
door paneller – motor vehicle manufacturing **9482**
door patcher, wood – wood products manufacturing **9493**
door person **6672**
door repairer, wood – wood products manufacturing **9493**
door sander **9619**
door-hang machine operator – woodworking **9513**
doorkeeper, hotel **6672**
doorman/woman **6683**
door-to-door distributor **1463**
door-to-door sales supervisor **6211**
door-to-door salesperson **6623**
dope machine operator – pipelines **7611**

doper – fabric products **5245**
doper and marker **5245**
dot etcher – printing **9472**
double needle sewing machine operator **9451**
double needle sewing machine stitcher **9451**
doubling machine operator – textile manufacturing **9441**
doubling machine tender – textile manufacturing **9441**
dough feeder – food and beverage processing **9617**
dough maker – food and beverage processing **9461**
dough roller **9617**
dough weigher **9617**
dough-kneading machine tender **9461**
doughnut shop attendant **6641**
doughnut shop clerk **6641**
doughnut shop counter clerk **6641**
dovetail machine operator – woodworking **9513**
dowel machine operator – woodworking **9513**
dowel machine set-up operator – woodworking **9513**
dowel machine tender **9513**
dowel pointer – woodworking **9513**
dowelling machine operator – woodworking **9513**
dowelling machine set-up operator – woodworking **9513**
dowelling machine tender – woodworking **9513**
dowel-making machine operator – woodworking **9513**
dowel-making machine set-up operator – woodworking **9513**
dowel-making machine tender – woodworking **9513**
downhand welder – pipeline **7265**
downhole loader – underground mining **8231**
downhole tool operator – oil and gas drilling **8232**
dozer operator **7421**
DPM (doctor of podiatric medicine) **3123**
drafter **2253**
drafting checker **2253**
drafting clerk **2253**
drafting instructor – college **4131**
drafting instructor – community college **4131**
drafting room typist **1411**
drafting supervisor **2253**
drafting teacher – college **4131**
drafting teacher – community college **4131**
drafting technician **2253**
drafting technician, design **2253**
drafting technologist **2253**
drafting tracer **2253**
draftsman, cartographic **2255**
draftsman/woman **2253**
draftsman/woman, map **2255**
draftsperon, civil **2253**
draftsperson **2253**
draftsperson – computer-assisted design **2253**
draftsperson hull – shipbuilding and repair **2253**
draftsperson, air conditioning systems **2253**
draftsperson, architectural **2253**
draftsperson, electrical **2253**
draftsperson, process piping **2253**
draftspersons supervisor **2253**
drag saw operator – sawmill **9431**
dragline crane operator **7371**
dragline oiler **7443**
dragline operator – crane **7371**
dragline operator helper **7611**
drain roto servicer – public works **7422**
drain tile auger machine operator – clay products **9414**
drainage design engineer **2131**
drain-roto cleaner **6662**
drama actor **5135**
drama coach **5135**
drama critic **5123**
drama professor – university **4121**
drama teacher **5135**
drama teacher – secondary school **4141**
dramatic arts historian **4169**
dramatic arts teacher **5135**
dramatic arts teacher – private or studio **5135**
dramatic reader **5135**
draper **9454**
drapery and upholstery salesperson – retail **6421**
drapery cleaner **6681**
drapery cleaner – laundry and dry cleaning **6681**
drapery hanger **7441**
drapery header **9451**
drapery heading maker **9451**
drapery installer **7441**
drapery making labourer **9619**
drapery pleater, hand **9619**
drapery pleater, machine **9517**
drapery sewer **9451**
drawer assembler **9492**
drawer fitter **9492**
drawer helper – primary metal processing **9611**
drawer, warps – textiles **9442**
drawer-in – textiles **9442**
drawer-in helper – textiles **9442**

drawer-in machine operator – textiles **9442**
drawer-in, dobby loom **9442**
drawer-in, loom **9442**
drawing instrument assembler **9498**
drawing kiln operator – glass forming **9413**
drawing machine tender – textile fibre **9441**
drawings filing clerk **1413**
drawstring inserter – garment manufacturing **9619**
dredge captain **2273**
dredge commanding officer **2273**
dredge deckhand **7433**
dredge mate **2273**
dredge mechanic **7312**
dredge operator **7421**
dredge repairer **7312**
dredge runner **7421**
dredge worker **7611**
dredgemaster – construction **7217**
dredging equipment operators foreman/woman **7217**
dredging foreman/woman **7217**
dress finisher **9619**
dress patternmaker **5245**
dress repairs foreman/woman – clothing manufacturing **9225**
dressage and stunt horse trainer **8253**
dressage instructor **5254**
dressed hide and pelt finisher **9453**
dressed poultry grader **9465**
dresser – metal products manufacturing **9612**
dresser – motion pictures, broadcasting and performing arts **5227**
dresser – textile manufacturing **9441**
dresser, grinding wheels **9414**
dresser, ware – concrete, clay and stone products **9414**
dressing and sauce mixer **9461**
dressing mixer operator – food and beverage processing **9461**
dressmaker **7342**
dressmakers supervisor **9225**
dressmaking department foreman/woman **9225**
drier operator – mineral and metal processing **9411**
drier tender helper – chemical processing **9613**
drier worker – primary metal processing **9611**
drift driller – underground mining **8231**
drift miner **8231**
drill and ream mechanic – aircraft assembly **9481**
drill carriage operator helper – underground mining **8411**
drill fitter boss – mining **8221**
drill fitter foreman/woman – mining **8221**
drill grinder – metal products manufacturing **9612**
drill operator – woodworking **9513**
drill operator, glass **9413**
drill press operator – metal machining **9511**
drill press operator – stone products **9414**
drill press operator – woodworking **9513**
drill press operator, stonework **9414**
drill press set-up operator – metal machining **9511**
drill punch tender – paper converting **9435**
driller – offshore drilling rig **8232**
driller – oil and gas drilling **8232**
driller – quarrying **7372**
driller – surface mining **7372**
driller – underground mining **8231**
driller helper – underground mining **8411**
driller, clayware **9414**
driller, construction **7372**
driller, drift – underground mining **8231**
driller, greenware – clay products **9414**
driller, long-hole – underground mining **8231**
driller, optical goods – non-prescription **9517**
driller, quarry **7372**
driller, rotary raise – underground mining **8231**
driller, seismic prospecting **7372**
driller, stones – stone products **9414**
driller, water well apprentice **7373**
driller, wood – woodworking **9513**
drilling and blasting foreman/woman – construction **7217**
drilling and milling machine operator – metal machining **9511**
drilling and recovery chief engineer **2145**
drilling and recovery petroleum engineer **2145**
drilling engineer, oil and gas **2145**
drilling fluid technician **2212**
drilling foreman/woman – mining and quarrying **8221**
drilling machine operator – construction **7372**
drilling machine operator – metal machining **9511**
drilling machine operator – underground mining **8231**
drilling operations manager **0811**
drilling platform welder **7265**
drilling rig crane operator **7371**
drilling rig medic **3234**
drilling rig medical technician **3234**
drilling rig medical warden **3234**
drilling rig medical worker **3234**
drilling rig radio operator **1475**

drilling rig storekeeper **1472**
drilling rig welder **7265**
drill-stem tester – oil and gas drilling **8232**
drive-in food service attendant **6641**
drive-in theatre attendant **6671**
driver helper **7622**
driver salesman/woman **7414**
driver salesperson **7414**
driver, ambulance **3234**
driver, bulk milk truck **7411**
driver, bus **7412**
driver, chuckwagon **5251**
driver, courier service **7414**
driver, demolition **5251**
driver, dump truck **7411**
driver, explosives truck **7411**
driver, fast food service **7414**
driver, funeral services **7413**
driver, gravel truck **7411**
driver, harness race **5251**
driver, harness racing **5251**
driver, hearse **7413**
driver, heavy truck **7411**
driver, line-haul **7411**
driver, livestock **8431**
driver, logging truck **7411**
driver, long haul **7411**
driver, low-bed semi-trailer **7411**
driver, mobile concrete mixer **7411**
driver, motor coach **7412**
driver, moving van **7411**
driver, public passenger transit **7412**
driver, race car **5251**
driver, ready-mix – construction **7411**
driver, ready-mix truck **7411**
driver, school bus **7412**
driver, small vans **7414**
driver, sprinkling truck – public works **7422**
driver, sulky **5251**
driver, taxi **7413**
driver, taxicab **7413**
driver, tow truck **7411**
driver, transport **7411**
driver, truck **7411**
driver, truck-trailer **7411**
driver, zamboni **6671**
driver's licence examiner **4216**
driver-salesmen/women supervisor **7222**
driving examiner **4216**
driving instructor **4216**
driving instructor, commercial vehicles **4131**
driving range attendant **6671**
driving school instructor **4216**
driving school manager **0651**
drop forge hand **9512**
drop forge operator **9512**
drop forge operator – metal forging **9512**
drop forger **9512**
drop hammer forger **9512**
drop hammer helper – metal fabrication **9612**
drop hammer operator – metal forging **9512**
drop sorter operator – wood processing **9434**
drop tester, cartridge primers **9516**
drop-in centre worker **4212**
dropper, dehairing machine – meat packing plant **9462**
drop-pinning machine operator – textiles **9442**
dross furnace operator **9231**
dross skimmer – primary metal and mineral products processing **9611**
dross treatment operator – zinc melting **9411**
drug addiction counsellor **4153**
drug addiction worker **4212**
drug and alcohol abuse consultant **4165**
drug and toilet goods weigher **9421**
drug and toilet preparations inspector **9498**
drug information pharmacist **3131**
drug investigator – police **6261**
drug squad inspector – police **0641**
drug store delivery driver **7414**
druggist **3131**
drugstore clerk **6421**
drugstore dispensing assistant **3414**
drugstore manager **0621**
drugstore side room attendant **3414**
drum barker tender – wood processing **9434**
drum builder, rubber **9423**
drum filler, liquefied gases **9421**
drum painter **9496**
drum sander – woodworking **9513**
drum sander operator – woodworking **9513**
drummer **5133**
dry battery coremaking machine tender **9487**
dry battery inspector – electrical equipment manufacturing **9487**
dry battery process room operator – electrical equipment manufacturing **9487**
dry battery tester – electrical equipment manufacturing **9487**
dry cans operator – textile manufacturing **9443**
dry cell and battery assembler **9487**
dry cell assembler **9487**
dry cell assemblers supervisors **9223**

dry cell assembly machine feeder – electrical equipment manufacturing **9487**
dry cell battery assembler **9487**
dry cell charge machine operator – electrical equipment manufacturing **9487**
dry cell charger operator – electrical equipment manufacturing **9487**
dry cell coremaking machine tender **9487**
dry cell coremaking machine tender – electrical equipment manufacturing **9487**
dry cell remover – electrical equipment manufacturing **9619**
dry cell sealer – electrical equipment manufacturing **9487**
dry cell tester – electrical equipment manufacturing **9487**
dry cell tube machine assembler – electrical equipment manufacturing **9487**
dry chain offbearer – wood processing **9614**
dry chainman/woman – wood processing **9614**
dry cleaner **6681**
dry cleaner helper **6681**
dry cleaner supervisor **6214**
dry cleaning driver **7414**
dry cleaning plant manager **0651**
dry cleaning production supervisor **6214**
dry cleaning service manager **0651**
dry cleaning supervisor **6214**
dry curer – food and beverage processing **9617**
dry dock worker – shipbuilding **7435**
dry explosive mixer **9421**
dry foods mixer operator **9461**
Dry Ice maker **9421**
dry pan operator – stone products **9414**
dry plaster mixer **9414**
dry press operator – clay products **9414**
dry products mixer – stone products **9414**
dry starch maker **9461**
dry starch maker helper **9461**
dry starch operator – food and beverage processing **9461**
dry starch worker – food and beverage processing **9461**
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dryer and cooler operator – tobacco processing **9464**
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drying kiln operator – wood processing **9434**
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drying machine operator – textile manufacturing **9443**
drying machine operator – tobacco processing **9464**
drying machine tender – clay products **9414**
drying machine tender – textile manufacturing **9443**
drying machine tender – textile processing **9616**
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dry-starch foreman/woman – food processing **9213**
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drywall and acoustical installer helper **7611**
drywall and ceiling system installer **7284**
drywall and lather applicator **7284**
drywall application contractor **7219**
drywall applicator **7284**
drywall applicators foreman/woman **7219**
drywall contractor **7219**
drywall finisher **7284**
drywall finisher apprentice **7284**
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drywall installer **7284**
drywall installer and finisher **7284**
drywall installer and finisher apprentice **7284**
drywall installer lead hand **7284**
drywall installer team leader **7284**
drywall interior systems installer **7284**
drywall mechanic **7284**
drywall nailer **7284**
drywall nailing person **7284**
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DTP (desktop publishing) specialist **1423**
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dubbing machine operator **5225**
duct installer **7441**
dude wrangler **6442**
dulse gatherer **8613**
dumbwaiter installer-repairer **7318**
dump truck driver **7411**
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dumpman/woman **7621**
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duplicating machine clerk **1411**
duplicating machine operator **1411**
duplicator punch operator – metal fabrication **9514**
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dust mop assembler **9498**
dust mop maker **9498**
dust operator **9411**
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dust-collector labourer – primary metal processing **9611**
duster maker **9498**
duty officer, headquarters – police **6261**
duty officer, station – police **6261**
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dye foreman/woman – textiles **9216**
dye maker **9421**
dye mixer **9443**
dye penetrant technician **2261**
dye penetrant tester **2261**
dye room supervisor – textiles **9216**
dyehouse foreman/woman – hide and pelt processing **9225**
dyehouse foreman/woman – textiles **9216**
dyehouse supervisor – textile processing **9216**
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dyeing and finishing technician **2211**
dyeing and finishing technologist **2211**
dyeing machine tender – textile manufacturing **9443**
dyeing range operator – textile manufacturing **9443**
dyeing supervisor – textiles **9216**
dyeing technician **2211**
dyeing tub tender – textile manufacturing **9443**
dyeing vat operator – textile manufacturing **9443**
dyeing worker – textile manufacturing **9443**
dyer – textile manufacturing **9443**
dyer helper – textile processing **9616**
dyer, laundry and dry cleaning **6681**
dye-reel tender – textile manufacturing **9443**
dynamic positioning operator – offshore drilling **8412**
dynamiters foreman/woman – construction **7217**
dynamiters foreman/woman – quarrying **8221**
dynamiting foreman/woman – construction **7217**
dynamometer tester, engines **9486**

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ear specialist **3111**
ear, nose and throat specialist **3111**
early childhood assistant **4214**
early childhood education worker **4214**
early childhood educator **4214**
early childhood educator assistant **4214**
early childhood program staff assistant **4214**
early childhood services teacher – elementary school **4142**
early childhood supervisor **4214**
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earth mover tire builder **9423**
earth station manager – telecommunications **0131**
earthmoving equipment mechanic **7312**
earth-moving equipment operator **7421**
earthworks labourer – construction **7611**
easement and right of way clerk **1225**
eavestrough contractor **7219**
eavestrough installer **7441**
ECG (electrocardiographic) technician **3217**
ECG (electrocardiographic) technologist **3217**
echocardiographer **3216**
echocardiography technician **3216**
echocardiography technologist **3216**
echocardiography technologist sonographer **3216**
echoencephalographic technologist **3218**
echoencephalography technician **3218**
echography technical **3216**
echography technologist **3216**
ecobiologist **2121**
ecological research manager **0212**
ecological technician **2221**

ecological technologist **2221**
ecologist **2121**
ecology manager **0212**
e-commerce (electronic commerce) manager **0611**
e-commerce (electronic commerce) sales manager **0611**
e-commerce (electronic commerce) software developer **2174**
e-commerce (electronic commerce) web site developer **2175**
econometrician **4162**
economic advisor **4162**
economic analysis chief – government services **0412**
economic analyst **4162**
economic analyst, financial services **1112**
economic and political affairs assistant **0412**
economic and trade analysis director – government services **0412**
economic botanist **2121**
economic consultant **4162**
economic development consultant **4163**
economic development co-ordinator **0412**
economic development director – government services **0412**
economic development officer – government **4163**
economic forecaster **4163**
economic geographer **4169**
economic historian **4169**
economic policy adviser **4162**
economic policy analysis assistant director – government services **0412**
economic policy analysis chief – government services **0412**
economic policy analysis director – government services **0412**
economic policy analyst **4162**
economic policy researcher **4162**
economic research group supervisor **4162**
economic research officer **4163**
economics professor – university **4121**
economics teacher – college **4131**
economics teacher – community college **4131**
economics teacher – secondary school **4141**
economist **4162**
economist, natural resources **4162**
eddy current technician **2261**
eddy current tester **2261**
edge bander – woodworking **9513**
edge bander operator – woodworking **9513**
edge gluer – wood processing **9434**
edge grinder, ophthalmic lenses **3414**
edge grinder, watch crystals **9517**
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edger operator, automatic – sawmill **9431**
edger, glass **9413**
edger, hand lenses – non-prescription **9517**
edger, precision optical lenses – non-prescription **9517**
edger, table tops – woodworking **9513**
edgerman/woman – sawmill **9431**
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edible oil pumper – food and beverage processing **9461**
edible oil refiner – food and beverage processing **9461**
edible oil refiner helper **9617**
editing clerk **1452**
editor **5122**
editor, advertising **5122**
editor, book **5122**
editor, business **5122**
editor, control room – broadcasting **5122**
editor, dictionary **5122**
editor, editorial page **5122**
editor, films **5131**
editor, journal **5122**
editor, magazine **5122**
editor, manuscripts **5122**
editor, maps **2255**
editor, newspaper **5122**
editor, sound **5225**
editor, videotape **5225**
editorial assistant **1452**
editorial cartoonist **5241**
editorial chief **0512**
editorial clerk **1452**
editorial consultant **5122**
editorial page editor **5122**
editorial writer, newspaper **5123**
editor-in-chief **0512**
EDM (electrical discharge machine) operator **9511**
EDM (electrical discharge machine) set-up operator **9511**
EDM (electrical discharge machine) tender **9511**
EDP (electronic data processing) analyst **2172**
EDP (electronic data processing) applications programmer **2174**
EDP (electronic data processing) auditor **2171**
EDP (electronic data processing) manager **0213**
EDP (electronic data processing) specialist **2172**

EDP (electronic data processing) systems analyst **2172**
EDP (electronic data-processing) equipment operator **1422**
EDP (electronic data-processing) hardware and services sales representative **6221**
EDP (electronic data-processing) unit **1211**
education consultant **4166**
education courses salesperson **6421**
education curriculum development director **0413**
education curriculum development director – public administration **0413**
education director **0413**
education officer **4143**
education officer, museum **5124**
education outreach program co-ordinator **4166**
education policy analyst **4166**
education policy and research director – public administration **0413**
education policy consultant **4166**
education policy manager **0413**
education policy officer **4166**
education policy supervisor **4166**
education professor – university **4121**
education program co-ordinator **4166**
education program officer **4166**
education program planner **4166**
education programs administrator **0312**
education programs assistant director – public administration **0413**
education programs support director – public administration **0413**
education relations officers – policing **6261**
education research and information director **0413**
education research officer **4166**
education researcher **4166**
education science specialist **4166**
education statistician **2161**
education technician **6472**
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educational assistant **6472**
educational audiologist **3141**
educational counsellor **4143**
educational director, public health nursing – government services **0411**
educational guidance director **4143**
educational psychologist **4151**
educational resources assistant **6472**
educational resources technician **6472**
educational sociologist **4169**
educational speech-language pathologist **3141**
EEG (electroencephalograph) chief technologist **3218**
EEG (electroencephalograph) technician **3218**
EEG (electroencephalograph) technologist **3218**
EEG (electroencephalography) technologist **3218**
eel culture technician **2221**
eel farmer **8257**
efficiency engineer **2141**
EFP (electronic field production) camera operator **5222**
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egg candler **8431**
egg gatherer **8431**
egg grader **8431**
egg grading machine tender **8431**
egg grading station labourer **8431**
egg grading station manager **8252**
egg processing machine tender **8431**
egg producer **8251**
elbow interpreter **5125**
election campaign manager **0611**
election commission officer **4168**
election enumerator **1454**
elections expenses director **0414**
elections finances director **0414**
elections officer – government services **4168**
elections planning director **0414**
electric air conditioning assembler **9484**
electric appliance installer **7441**
electric appliance manufacturing inspector **9484**
electric appliance service technician **7332**
electric arc cutter – metal products manufacturing **9514**
electric arc furnace operator – primary metal processing **9231**
electric arc welder **7265**
electric arc welder, hand **7265**
electric baseboard heater assembler **9484**
electric bulb maker **9487**
electric cable manufacturing foreman/woman **9223**
electric cable network installer helper **7612**
electric cable splicer helper **7612**
electric clock assembler **9484**
electric clock components inspector **9484**
electric clock parts inspector **9484**
electric coffee maker assembler **9484**
electric contact tester **9484**
electric crane operator **7371**
electric dolly operator **7452**
electric dragline operator **7371**
electric dryer repairer **7332**

electric fan assembler **9484**
electric furnace assembler **9486**
electric furnace operator – foundry **9412**
electric furnace operator – primary metal and mineral products processing **9231**
electric fuse maker **9487**
electric gantry crane operator **7371**
electric generating plant manager **0912**
electric generating station manager **0912**
electric golf cart servicer (except mechanic) **7443**
electric heating system assembly line worker **9484**
electric household appliance installer **7441**
electric household appliance installer – residential and commercial equipment **7441**
electric household appliance servicer **7332**
electric lamp inspector and tester **9484**
electric lamp maker **9484**
electric lamp parts inspector **9484**
electric lamp wirer **9484**
electric lantern maker **9484**
electric lawn mower repairer **7332**
electric lawnmower inspector and tester **9484**
electric line operator **8232**
electric line operator – oil field services **8232**
electric meter installer – electric power systems **7244**
electric meter installers foreman/woman **7212**
electric meter installers supervisor **7212**
electric meter reader **1411**
electric meter repairer **7333**
electric meter repairer apprentice **7333**
electric meter setter – electric power systems **7244**
electric meter technician **7333**
electric meter tester – industrial electrical equipment **9485**
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electric motor and generator assembly foreman/woman **9223**
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electric motor mechanic **7333**
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electric motor repairer **7333**
electric motor repairer and tester **7333**
electric motor repairer helper **7612**
electric motor repairer-tester **7333**
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electric motor shop foreman/woman **7216**
electric motor systems technician **7333**
electric motor tester helper **9619**
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electric motor testing helper **9619**
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electric motor winder-repairer **7333**
electric mule operator **7452**
electric power and wire communications labourer **7612**
electric power company president **0016**
electric power plant manager **0912**
electric power services manager **0912**
electric range assembler **9484**
electric refrigerator servicer **7332**
electric sign assembler **9484**
electric sign erector **7441**
electric sign repairer **7445**
electric signal repairer – railway **7242**
electric snowblower inspector and tester **9484**
electric spot welder **7265**
electric spot welder operator **7265**
electric spot-welding machine operator **7265**
electric stove assembler **9484**
electric toaster inspector **9484**
electric tool repairer **7332**
electric toy repairer **7445**
electric truck operator **7452**
electric truck servicer (except mechanic) **7443**
electrical accessories assembler **9484**
electrical and electronics design technologist **2241**
electrical and electronics quality control technologist **2241**
electrical and electronics research engineer **2133**
electrical and electronics technician – avionics **2244**
electrical and mechanical quantity surveyor **2234**
electrical apparatus mechanic **7333**
electrical appliance assembler **9484**
electrical appliance assemblers supervisor **9223**
electrical appliance assembly foreman/woman **9223**
electrical appliance assembly inspector **9484**
electrical appliance assembly supervisor **9223**
electrical appliance assembly tester **9484**
electrical appliance bench assembler **9484**
electrical appliance bench worker **9484**
electrical appliance inspector **9484**
electrical appliance installer **7441**
electrical appliance manufacturing supervisor **9223**
electrical appliance operator-assembler **9484**
electrical appliance production assembler **9484**
electrical appliance repair shop supervisor **7216**

electrical appliance repairer **7332**
electrical appliance repairer, production line **9484**
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electrical appliance servicer **7332**
electrical appliance technician **7332**
electrical appliances installation foreman/woman **7212**
electrical cable splicer – electric power systems **7244**
electrical connection crimper **9487**
electrical construction contractor **7212**
electrical construction foreman/woman **7212**
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electrical continuity tester – industrial electrical equipment **9485**
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electrical contractor, construction **7212**
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electrical control panel subassembler **9485**
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electrical controls calibrator **9484**
electrical controls inspector **9484**
electrical design engineer **2133**
electrical discharge machine (EDM) operator **9511**
electrical discharge machine (EDM) tender **9511**
electrical distribution engineer **2133**
electrical drafting supervisor **2253**
electrical draftsperson **2253**
electrical dry cell assembly foreman/woman **9223**
electrical dry cell inspector **9487**
electrical dry cell inspector – electrical equipment manufacturing **9487**
electrical dry cell-making inspector **9487**
electrical energy installation inspector **2264**
electrical energy transmission engineer **2133**
electrical energy transmission planning engineer **2133**
electrical engineer **2133**
electrical engineer, process control **2133**
electrical engineering design technologist **2241**
electrical engineering professor – university **4121**
electrical engineering service manager **0211**
electrical engineering technician **2241**
electrical engineering technologist **2241**
electrical equipment assembler **9484**
electrical equipment assembly line setter **9484**
electrical equipment base filler **9487**
electrical equipment engineer **2133**
electrical equipment impregnator **9487**
electrical equipment installation and repair foreman/woman **7212**
electrical equipment manufacturing foreman/woman **9223**
electrical equipment manufacturing inspector **9484**
electrical equipment manufacturing machine operator **9487**
electrical equipment manufacturing supervisor **9223**
electrical equipment manufacturing utility operator **9484**
electrical equipment mechanic trainee **7333**
electrical equipment operator – shovel **7421**
electrical equipment production assembler **9484**
electrical equipment sales representative **6221**
electrical estimator – construction **2234**
electrical fitter **9485**
electrical fitter – industrial electrical equipment **9485**
electrical fixtures installer **7241**
electrical foreman/woman **7212**
electrical generating systems technician – military **7351**
electrical generating systems technician (power stations) – military **7352**
electrical household appliance assembler **9484**
electrical household appliance inspector **9484**
electrical industrial equipment sales representative **6221**
electrical inspector – construction **2264**
electrical inspector – manufacturing **9484**
electrical inspector, aircraft **2244**
electrical inspector, locomotive **9485**
electrical installation inspector **2264**
electrical instrument mechanic **7333**
electrical insulator assembler – small transformer manufacturing **9484**
electrical insulator tester **9619**
electrical lamp-making machine set-up man/woman **9487**
electrical lead acid storage battery filler **9487**
electrical lighting fixture tester **9484**
electrical machinist **7231**
electrical mechanic **7333**
electrical mechanic – electrical utilities **7333**
electrical mechanic (except avionics) **7333**
electrical mechanic apprentice **7333**
electrical mechanic helper **7612**
electrical mechanic trainee **7333**
electrical mechanic, meter repair **7333**

electrical mechanic, switchgear repair **7333**
electrical mechanics foreman/woman **7216**
electrical mechanics group leader **7333**
electrical mechanics lead hand **7333**
electrical mercury switch assembler **9484**
electrical mercury switch assembly tester **9484**
electrical meter assembler **9484**
electrical motor assembly foreman/woman **9223**
electrical motor coil winder-repairer **7333**
electrical network engineer **2133**
electrical panel assembler and wirer – industrial electrical equipment **9485**
electrical plug maker **9487**
electrical power inspector and tester supervisor **7212**
electrical power scheduling engineer **2133**
electrical power supply system technician **2241**
electrical power system operator **7352**
electrical power system planning technician **2241**
electrical power system technician **2241**
electrical power systems design engineer **2133**
electrical power transmission operations director **0912**
electrical powerhouse electrician **7243**
electrical powerhouse electrician – electrical power system **7243**
electrical products labourer **9619**
electrical quality assurance inspector – motor vehicle manufacturing **9482**
electrical relay tester and adjuster **9484**
electrical repairer, crane maintenance **7242**
electrical repairer, industrial **7242**
electrical repairer, machine shop **7242**
electrical research engineer **2133**
electrical rewind mechanic **7333**
electrical rubber goods manufacturing tester **9423**
electrical safety inspector **2264**
electrical station operator **7352**
electrical station operator – electrical power system **7352**
electrical station power distribution inspector **7352**
electrical storage battery charger operator **9487**
electrical storage battery inspector **9487**
electrical storage battery plate washer and dryer **9487**
electrical storage battery repairer – electrical equipment manufacturing **9487**
electrical storage battery tester **9487**
electrical superintendent **0721**
electrical supervisor – drilling rig **7212**
electrical switch assembler **9484**
electrical switch maker **9484**
electrical switchgear inspector **9485**
electrical switchgear panel wirer **9485**
electrical switchgear tester **9485**
electrical switchgear wireperson **9485**
electrical systems contractor **7212**
electrical systems planning engineer **2133**
electrical technician **2241**
electrical technician – military **7242**
electrical technician (power system) – military **7243**
electrical test technician – motor vehicle manufacturing **9482**
electrical tester, instrument panels – motor vehicle manufacturing **9482**
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electrical wiring inspector supervisor **7212**
electrical wiring installation contractor **7212**
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electrician – electricity production **7243**
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electrician – rail transport **7242**
electrician – troubleshooter **7241**
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electrician helper, powerhouse **7612**
electrician, aircraft **2244**
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electrician, construction and maintenance **7241**
electrician, electrical powerhouse – electrical power system **7243**
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electrician, industrial **7242**
electrician, institution **7241**
electrician, plant maintenance **7242**
electrician, set **5226**
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electrician, stage **5226**
electrician, switched communications **7246**
electrician, telecommunications equipment **7246**
electrician, telephone communications **7246**
electrician, toll communications **7246**
electrician-contractor **7212**
electricians supervisor **7212**
electricity and gas meters inspector **2262**
electricity and magnetism physicist **2111**
electricity distribution network technologist **2241**
electricity sales representative **6221**
electrocardiographic (ECG) technician **3217**
electrocardiographic (ECG) technologist **3217**
electrocardiography technician **3217**
electrocardiography technologist **3217**
electrocardiology technician **3217**
electrocardiology technologist **3217**
electrochemical engineer **2134**
electrochemical machining tool operator **9511**
electrochemist **2112**
electrode cleaner **9613**
electrode installer **9487**
electrode oven operator **9421**
electroencephalograph (EEG) chief technologist **3218**
electroencephalograph (EEG) technician **3218**
electroencephalograph (EEG) technologist **3218**
electroencephalograph technologist **3218**
electroencephalographic instructor **3218**
electroformer **9497**
electrogalvanizer **9497**
electrogalvanizing machine operator **9497**
electroless plater **9497**
electrologist **6482**
electrolysis instructor – college or vocational institute **4131**
electrolysis operator **6482**
electrolysis technician **6482**
electrolysis tester – electrical equipment manufacturing **9484**
electrolytic anode changer **9487**
electrolytic cell cleaner **9613**
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electrolytic cell operations foreman/woman – primary metal and mineral products processing **9211**
electrolytic cell repairer – industrial electrical equipment **9485**
electrolytic cell tester – primary metal processing **9415**
electrolytic cleaner operator – primary metal processing **9411**
electrolytic descaler – primary metal processing **9411**
electrolytic etcher – metal machining **9511**
electrolytic refiner helper – primary metal and mineral products processing **9611**
electrolytic refinery process operator **9231**
electrolytic tank maintainer – primary metal and mineral products processing **9411**
electrolytic tank tender **9497**
electromechanical draftsperson **2253**
electromechanical foreman/woman **7216**
electromechanical technician **2241**
electromechanical technician – military **2241**
electromechanical technicians foreman/woman **7216**
electromechanical technology teacher – college or vocational institute **4131**
electromedical equipment technician **2241**
electrometallurgical engineer **2142**
electromyography (EMG) chief technologist **3218**
electromyography (EMG) lab technician **3218**
electromyography (EMG) technician **3218**
electromyography (EMG) technologist **3218**
electron microscopy technologist – medical laboratory **3211**
electron tube ager **9483**
electron tube assembler **9483**
electron tube inspector and tester **9483**
electron tube stem assembly inspector **9483**
electroneurodiagnostic (END) technologist **3218**
electroneurophysiology (ENP) technologist **3218**
electronic accessories repair and overhaul mechanic – avionics **2244**
electronic assembly foreman/woman **9222**
electronic assembly supervisor **9222**
electronic business machine assembler **9483**
electronic cash register assembler **9483**
electronic cash registers servicer **2242**
electronic commerce (e-commerce) manager **0611**
electronic commerce (e-commerce) software developer **2174**
electronic communications technician **7246**
electronic component assembler **9483**
electronic component cleaner **9483**
electronic component insertion colour coder **9483**
electronic component tester – electronic equipment manufacturing **9483**
electronic components inspection technician **2241**
electronic components purchasing chief **0113**
electronic components purchasing director **0113**
electronic components purchasing manager **0113**

electronic components technician, aircraft **2244**
electronic components tester **9483**
electronic control assembler **9483**
electronic control operator – electronic equipment manufacturing **9483**
electronic data processing (EDP) applications programmer **2174**
electronic data processing (EDP) auditor **2171**
electronic data processing (EDP) manager **0213**
electronic data processing (EDP) specialist **2172**
electronic data processing (EDP) systems analyst **2172**
electronic data-processing (EDP) equipment operator **1422**
electronic data-processing (EDP) hardware and services sales representative **6221**
electronic data-processing (EDP) unit **1211**
electronic draftsperson **2253**
electronic engraver **9472**
electronic equipment assembler – electronic equipment manufacturing **9483**
electronic equipment fabricating and assembling foreman/woman **9222**
electronic equipment fabricating and assembling supervisor **9222**
electronic equipment fabricating and assembling workers foreman/woman **9222**
electronic equipment installation and repair supervisor **2242**
electronic equipment maintenance technician **2241**
electronic equipment repairer **2242**
electronic equipment repairer, hospital **2241**
electronic equipment salesperson – wholesale **6221**
electronic equipment subassembler **9483**
electronic field production (EFP) camera operator **5222**
electronic formatter **1423**
electronic games designer **5241**
electronic games repairer **2242**
electronic games technician **2242**
electronic gluing machine tender – woodworking **9513**
electronic inspection foreman/woman – electronics manufacturing **9222**
electronic instrument maker **9483**
electronic keyboard assembler **9483**
electronic letterer operator **1423**
electronic music equipment installer and repairer **2242**
electronic news gathering (ENG) camera operator **5222**
electronic news gathering (ENG) editor **5225**
electronic office machines assembler **9483**
electronic organ assembler **9483**
electronic organ repairer **2242**
electronic peripheral equipment assembler **9483**
electronic photocomposer operator **1423**
electronic phototypesetting machine operator **1423**
electronic prepress technician **9472**
electronic printing and finishing machine operator **9471**
electronic products field service technician **2242**
electronic products mounter – electronic equipment manufacturing **9483**
electronic products store manager **0621**
electronic prototype technologist **2241**
electronic scanning machine operator, colour separation **9472**
electronic service technician apprentice **2242**
electronic service technician supervisor **2242**
electronic service technologist – consumer products **2242**
electronic sign maker operator **9471**
electronic sign maker operator – typesetting **1423**
electronic systems tester **2241**
electronic technology teacher – college **4131**
electronic technology teacher – community college **4131**
electronic typewriters repairer **2242**
electronic unit inspector – electronic equipment manufacturing **9483**
electronic video graphics operator **5225**
electronic warfare operator – military **6464**
electronic warfare technician – military **6464**
electronics apprentice – community antenna television **7247**
electronics assembler **9483**
electronics design technologist **2241**
electronics engineer **2133**
electronics engineering design technologist **2241**
electronics engineering technician **2241**
electronics engineering technologist **2241**
electronics equipment assembler **9483**
electronics inspector – electronic equipment manufacturing **9483**
electronics inspector, aircraft **2244**
electronics inspector, missiles **2244**
electronics manufacturing foreman/woman **9222**
electronics manufacturing shop worker **9483**
electronics manufacturing supervisor **9222**

electronics manufacturing technician **2241**
electronics manufacturing technologist **2241**
electronics mechanic – avionics **2244**
electronics physicist **2111**
electronics production support technician **2241**
electronics quality control troubleshooter **2241**
electronics research engineer **2133**
electronics research scientist **2111**
electronics salesperson – retail **6421**
electronics technician **2241**
electronics technician – consumer products **2242**
electronics technician – household and business equipment **2242**
electronics technician, drilling rigs **2241**
electronics technician, fire alarms **2242**
electronics technologist, physics department **2241**
electronics test engineer **2133**
electronics tester **9483**
electronics-manufacturing process inspector **9483**
electroplasty equipment operator **9497**
electroplater **9497**
electroplater operator **9497**
electroplater, metal **9497**
electroplater, production **9497**
electroplating foreman/woman **9226**
electroplating tank tender **9472**
electrostatic camera operator **9472**
electrostatic machine painter **9496**
electrostatic painter **9496**
electrostatic painting line tender **9496**
electrostatic painting machine operator **9496**
electrostatic painting machine set-up operator **9496**
electrostatic separator tender – primary metal processing **9411**
electro-technician – avionics **2244**
electro-technician, aircrafts and missiles – avionics **2244**
electro-technician, missiles – avionics **2244**
electrotyper – printing **9472**
electrotyper and platemaker **9472**
elemental worker – packaging **9619**
elementary education director **0413**
elementary particle physicist **2111**
elementary particle theorist **2111**
elementary school education director **0413**
elementary school librarian **4142**
elementary school principal **0313**
elementary school reading clinician **4142**
elementary school substitute teacher **4142**
elementary school supply teacher **4142**
elementary school teacher **4142**
elementary school teacher, English as a second language **4142**
elementary school teacher, French as a second language **4142**
elementary school teacher, special education **4142**
elementary school teacher's aide **6472**
elementary school teacher's assistant **6472**
elevating grader operator **7421**
elevating scraper operator **7421**
elevator adjuster **7318**
elevator builder **7318**
elevator construction foreman/woman **7216**
elevator constructor **7318**
elevator constructor and mechanic apprentice **7318**
elevator constructor helper **7612**
elevator constructor-mechanic **7318**
elevator constructors foreman/woman **7216**
elevator erector **7318**
elevator inspector **2262**
elevator installer **7318**
elevator maintenance mechanic **7318**
elevator mechanic **7318**
elevator mechanic (non-construction) **7318**
elevator mechanic apprentice **7318**
elevator mechanic helper **7612**
elevator operator **6683**
elevator repair mechanic **7318**
elevator repairer **7318**
elevators maintenance service supervisor **7216**
eligibility co-ordinator – social assistance **4212**
eligibility co-ordinator – welfare **4212**
e-line operator – oil field services **8232**
elocution therapist – medical **3235**
Elpo tank attendant **9496**
EMA (emergency medical attendant) **3234**
embalmer **6272**
embalmer apprentice **6272**
embalming teacher – college or vocational institute **4131**
embedded software engineer **2173**
emblem-fusing machine operator – garment manufacturing **9619**
embosser – woodworking **9513**
embossing calender operator – pulp and paper **9433**
embossing calender tender – textile manufacturing **9443**
embossing machine operator – footwear **9517**
embossing machine operator – woodworking **9513**

embossing machine tender – explosives manufacturing **9516**
embossing machine tender – woodworking **9513**
embossing press operator – printing **9473**
embossing press tender – printing **9473**
embossing printer **9471**
embossing/encoding machine tender – printing **9473**
embossing-imprinting machine operator **9471**
embroidered fabric connecting thread cutter tender **9619**
embroiderer, hand **5244**
embroidery designer **5243**
embroidery frame mounter **9619**
embroidery machine charger **9619**
embroidery machine operator **9442**
embroidery machine tender **9442**
embroidery patternmaker **5245**
embroidery supervisor – fabric products **9225**
embroidery supervisor, fabric products **9225**
embryologist **2121**
EMCA (emergency medical care attendant) **3234**
emergency admitting clerk **1414**
emergency care nurse **3152**
emergency line repairer – electric power systems **7244**
emergency medical assistant **3234**
emergency medical attendant (EMA) **3234**
emergency medical care assistant **3234**
emergency medical care attendant (EMCA) **3234**
emergency medical care technician, newborns **3234**
emergency medical dispatcher **1475**
emergency medical responder **3234**
emergency medical technician (EMT) **3234**
emergency medical technician, paramedic (EMT – P) **3234**
emergency medical technologist, paramedic **3234**
emergency medicine physician **3111**
emergency medicine specialist **3111**
emergency medicine, chief of **0311**
emergency nurse **3152**
emergency paramedic **3234**
emergency physician **3111**
emergency road servicer, motor vehicle **7443**
emergency room aide **3413**
emergency room attendant **3414**
emergency servicer – electric power systems **7244**
emergency services dispatcher **1475**
emergency team foreman/woman – telecommunications **7212**
emergency vehicle dispatcher **1475**
emergency-entry attendant – hospital **3414**
emergentologist **3111**
EMG (electromyography) chief technologist **3218**
EMG (electromyography) lab technician **3218**
EMG (electromyography) technician **3218**
EMG (electromyography) technologist **3218**
employee benefits director **0112**
employee benefits manager **0112**
employee fitness consultant **4167**
employee fitness counsellor **4167**
employee insurance clerk **1434**
employee relations officer **1121**
employee services officer **1121**
employer-employee relations co-ordinator **1121**
employer-employee relations manager **0112**
employment adviser – human resources **1121**
employment agency general manager **0013**
employment agency manager **0123**
employment and insurance programs director – government services **0411**
employment centre director **0411**
employment clerk **1442**
employment counsellor – government services **4213**
employment counsellor supervisor **4213**
employment development specialist **4213**
employment equity adviser – human resources **1121**
employment equity adviser – social policy **4164**
employment equity chief **0112**
employment equity consultant **4164**
employment equity co-ordinator **1121**
employment equity director – human resources **0112**
employment equity manager – human resources **0112**
employment equity officer **1121**
employment equity policy analyst **4164**
employment equity programs director – government services **0411**
employment group counsellor **4213**
employment initiatives co-ordinator **4164**
employment insurance agent **1228**
employment insurance appeals board chairperson **0012**
employment insurance benefit claims investigator **1228**
employment insurance benefits control officer **1228**
employment insurance commissioner **0012**
employment insurance officer **1228**

employment insurance policy analysis officer **4164**
employment insurance policy analyst **4164**
employment insurance regional manager – government services **0411**
employment insurance services adviser **4164**
employment interviewer **1223**
employment manager **0112**
employment office manager **0123**
employment outreach counsellor **4213**
employment outreach program co-ordinator **4213**
employment outreach program counsellor **4213**
employment practices officer **1121**
employment programs director – government services **0411**
employment services assessment officer **4213**
employment services officer **4213**
employment specialist **4213**
employment standards specialist **4164**
employment supervisor **1223**
EMT – P (emergency medical technician paramedic) **3234**
EMT (emergency medical technician) **3234**
enamel applier – jewellery manufacturing **9498**
enamel baker – manufacturing **9496**
enamel burner – glass products manufacturing **9413**
enamel burner – jewellery manufacturing **9498**
enamel decorator – jewellery manufacturing **9498**
enamel dipper **9496**
enamel painter **9496**
enameller – arts and crafts **5244**
enameller – industrial painting and coating **9496**
enameller – ship and boat building **9496**
enameller, ceramic **9496**
enameller, electrical equipment **9496**
enameller, hand **5244**
enameller, tin can dipping **9496**
enamelling furnace operator – glass products manufacturing **9413**
enamelling machine tender **9496**
enamellist – arts and crafts **5244**
enamelware paint baker – glass products manufacturing **9413**
encapsulator – electrical equipment manufacturing **9487**
encapsulator – plastic manufacturing **9422**
encyclopedia salesperson – door-to-door sales **6623**
END (electroneurodiagnostic) technologist **3218**
end bore operator – woodworking **9513**
end matcher, sash and door – woodworking **9513**
end trimming and boring machine operator – woodworking **9513**
end-boring machine operator – woodworking **9513**
endocrinologist **3111**
endocrinology, chief of **0311**
endodontist **3113**
energy conservation engineer **2132**
energy economist **4162**
energy from waste plant operator **7351**
energy market analysis director – government services **0412**
energy policy analyst **4161**
energy policy director – government services **0412**
energy program officer **4161**
energy recovery incinerator plant operator **7351**
enforcement officer – environmental health **2263**
enforcement officer – forestry **2223**
ENG (electronic news gathering) camera operator **5222**
ENG (electronic news gathering) editor **5225**
engine accessories assembly foreman/woman (except aircraft) **9226**
engine accessories inspector **9486**
engine accessories overhaul mechanic **7315**
engine and boiler room crew member – ships **7434**
engine and generator support painter **9496**
engine assembly foreman/woman (except aircraft) **9226**
engine assembly supervisor (except aircraft) **9226**
engine block tester – motor vehicle manufacturing **9482**
engine dress assembler – motor vehicle manufacturing **9482**
engine dress supervisor – motor vehicle manufacturing **9221**
engine dynamometer tester **9486**
engine fitter helper **7612**
engine fitter, aircraft **7316**
engine generator set assembler **9484**
engine inspector – motor vehicle manufacturing **9482**
engine inspector, aircraft **7315**
engine installer – motor vehicle manufacturing **9482**
engine lathe set-up operator **9511**
engine mechanic – motor vehicle **7321**
engine mechanic, aircraft **7315**
engine overhaul foreman/woman **7216**

engine overhaul inspector, aircraft mechanical systems **7315**
engine overhaul mechanic, aircraft **7315**
engine rebuilding shop foreman/woman (except aircraft) **9226**
engine repair and overhaul mechanic, aircraft **7315**
engine repair foreman/woman, boats **7216**
engine room crew member – ships **7434**
engine room crew, ship **7434**
engine room greaser – marine **7434**
engine room greaser – water transport **7434**
engine room mechanical assistant – ships **7434**
engine room mechanical assistant, ship **7434**
engine tester – automobile assembly **9482**
engine tester, aircraft **7315**
engine tester, automobiles – automobile assembly **9482**
engine testing foreman/woman (except aircraft) **9226**
engineer in agronomy **2148**
engineer officer – water transport **2274**
engineer officer, fishing vessel **2274**
engineer trainee, railway **7361**
engineer, adhesives **2134**
engineer, agroprocessing **2148**
engineer, avionics **2133**
engineer, bioelectrical **2148**
engineer, biomechanical **2148**
engineer, biomedical **2148**
engineer, biotechnology **2134**
engineer, ceramics **2142**
engineer, chemical processes **2134**
engineer, coatings **2134**
engineer, computer (except software) **2147**
engineer, computer hardware **2147**
engineer, computer integrated manufacturing (CIM) **2141**
engineer, electrical distribution planning **2133**
engineer, electrical energy transmission **2133**
engineer, electrical energy transmission planning **2133**
engineer, electronics **2133**
engineer, food processing **2148**
engineer, food technology **2148**
engineer, forest **2122**
engineer, geological **2144**
engineer, geophysical **2144**
engineer, geotechnical **2144**
engineer, hardware **2147**
engineer, industrial hygiene **2134**
engineer, instrumentation **2133**
engineer, instrumentation and control **2133**
engineer, manufacturing **2141**
engineer, materials **2142**
engineer, mechanical design **2132**
engineer, mineral **2143**
engineer, mining **2143**
engineer, natural gas **2145**
engineer, network systems **2147**
engineer, nuclear operations **2132**
engineer, oil and gas drilling **2145**
engineer, optical communications **2147**
engineer, optical communications hardware **2147**
engineer, passenger train locomotive **7361**
engineer, petroleum **2145**
engineer, petroleum production **2145**
engineer, petroleum well completion **2145**
engineer, power generation **2132**
engineer, pulp and paper **2134**
engineer, railway locomotives **7361**
engineer, refinery **2134**
engineer, software **2173**
engineer, solid waste management **2131**
engineer, surveying **2131**
engineer, telecommunications hardware **2147**
engineer, textile **2148**
engineer, tugboat **2274**
engineer, waste treatment **2134**
engineering and architecture professor – university **4121**
engineering assistant, mechanical equipment **2232**
engineering clerk **1441**
engineering delivery chief **0211**
engineering department inspector **2262**
engineering department inspector – local government **2262**
engineering department manager **0211**
engineering design and drafting technologist **2253**
engineering draftsperson **2253**
engineering equipment salesperson **6221**
engineering firm president **0013**
engineering inspector **2262**
engineering manager **0211**
engineering physicist **2148**
engineering professor – university **4121**
engineering research and development director **0211**
engineering research general manager **0013**
engineering scientist **2148**
engineering service group manager **0211**
engineering service manager **0211**
engineering service project manager **0211**

engineering service quality assurance director **0211**
engineering service quality assurance manager **0211**
engineering service quality control department director **0211**
engineering service quality control manager **0211**
engineering service quality system manager **0211**
engineering service safety service director **0211**
engineering service superintendent **0211**
engineering supplies salesperson **6221**
engineering survey technician **2254**
engineering survey technologist **2254**
engineering technologist – electrical power distribution **2241**
engineering test pilot **2271**
engineering vice-president – financial, communications and other business services **0013**
engineering vice-president – goods production, utilities, transportation and construction **0016**
engineering vice-president – television broadcasting services **0015**
engineering vice-president – trade, broadcasting and other services **0015**
engineer's assistant **7622**
English as a second language (ESL) high school teacher **4141**
English as a second language teacher – elementary school **4142**
English as a second language teacher (ESL) – college **4131**
English as a second language teacher, high school **4141**
English editor **5122**
English literature high school teacher **4141**
English professor – university **4121**
English teacher – business college **4131**
English teacher – college **4131**
English teacher – elementary school **4142**
English teacher, secondary school **4141**
engraver, hand **5244**
engraver, machine – manufacturing **9517**
engraver, metal **5244**
engraver, monuments – stone products **9414**
engraver, pantograph – arts and crafts **5244**
engraver, pictures – printing **9472**
engraver, printing cylinders **9472**
engraver, printing plates **9472**
engraver, stonework – stone products **9414**
engraver, templates **9472**
engraver-letterer **9472**
engravers foreman/woman (except photoengravers) – printing **7218**
engraver-transferrer **9472**
engraving foreman/woman (except photoengraving) – printing **7218**
engraving machine operator **9517**
engraving machine operator – printing **9471**
enlarger operator – photographic processing **9474**
enlarger, photographs **9474**
enlarger, pictures – photographic processing **9474**
enquiries clerk **1453**
enrobing machine operator – food and beverage processing **9461**
enroute air traffic controller **2272**
entering machine operator – textiles **9442**
entertainer **5232**
entertainment agent **5124**
entertainment columnist **5123**
entertainment stage rigger **5227**
entertainment, sports and leisure director **0513**
entertainment, sports and recreation director **0513**
entomological technician **2221**
entomological technologist **2221**
entomologist **2121**
entomologist, apiculture **2121**
entremetier **6241**
enumerator **1454**
envelope flap gummer, machine – paper converting **9435**
envelope machine operator **9435**
envelope machine tender – paper converting **9435**
envelope maker operator **9435**
envelope-flap-cutting machine setter **9435**
envelope-flap-gumming machine tender – paper converting **9435**
envelope-making machine operator **9435**
envelope-making machine setter – paper converting **9435**
envelope-sealing and envelope-imprinting machine tender **1461**
environmental advisor (except engineer) **4161**
environmental and occupational toxicologist **2121**
environmental assistant – medical **3413**
environmental biologist **2121**
environmental chamber fitter-assembler **9484**
environmental chemical engineer **2134**
environmental chemist **2112**
environmental consultant (except engineer) **4161**
environmental education consultant **4161**
environmental engineer **2131**
environmental engineer, chemical **2134**
environmental engineer, civil **2131**

environmental epidemiologist **2161**
environmental geologist **2113**
environmental group director **0314**
environmental health and safety technician **2263**
environmental health and safety technologist **2263**
environmental health inspector **2263**
environmental health inspectors supervisor **2263**
environmental health officer **2263**
environmental health officers supervisor **2263**
environmental health services director – government services **0411**
environmental impact analyst **4161**
environmental issues lobbyist **4161**
environmental lobbyist **4161**
environmental medicine specialist **3111**
environmental officer **2263**
environmental planner **2153**
environmental program co-ordinator **4161**
environmental program development supervisor **4161**
environmental program manager **4161**
environmental science manager **0212**
environmental support person – medical **3413**
environmental systems operator – water treatment **9424**
environmental technician **2231**
environmental toxicologist **2121**
enzyme chemist **2112**
enzyme injector – food and beverage processing **9462**
enzymologist **2121**
enzymology biologist **2121**
epidemiologist (except physician and veterinarian) **2161**
epidemiologist, veterinary **3114**
epidemiology worker – medical laboratory **3212**
epoxy coater – electrical equipment manufacturing **9487**
epoxy coating machine operator – electrical equipment manufacturing **9487**
epoxy encapsulator – electrical equipment manufacturing **9487**
epoxy-pouring machine operator **9517**
equalizer operator – woodworking **9513**
equilibrist **5232**
equine veterinarian **3114**
equipment chief – telecommunications **0131**
equipment cleaner – chemical processing **9613**
equipment development technician **2232**
equipment installer and repairer – telecommunications **7246**
equipment inventory clerk **1474**
equipment manager **0113**
equipment mechanic, nuclear power station **7311**
equipment operator – municipal public work **7422**
equipment operator, heavy-duty **7421**
equipment operator, railway **7432**
equity trader **1113**
erecting engineer **2131**
erector, diesel engines **9486**
erector, electric signs **7441**
erector, highway signs **7611**
erector, iron structure **7264**
erector, neon signs **7441**
erector, precast concrete **7264**
erector, scaffold **7611**
erector, sign **7441**
erector, steel stud – non-bearing walls **7611**
erector, steelwork – underground mining **8411**
erector, structural iron **7264**
ergonomic products designer **2252**
ergonomics consultant **4161**
ergonomics specialist **4161**
ergonomist **4161**
erotic dancer **5232**
escalator inspector **2262**
escalator installer **7318**
escalator installer-repairer **7318**
escalator mechanic (non construction) **7318**
escalator repairer **7318**
escalator repairman/woman **7318**
escort **6484**
escort agency manager **0651**
escort interpreter **5125**
escort, tour **6441**
escort, travel **6441**
ESL (English as a second language) high school teacher **4141**
ESL (English as a second language) teacher – college **4131**
essayist **5121**
establishment guide **6441**
estate administrator **1114**
estate and trust administrator **1114**
estate executor **1114**
estate secretary **1242**
esthetic services manager **0651**
esthetic surgeon **3111**
estimates and programs controller **1114**
estimator, building construction **2234**
estimator, construction **2234**
estimator, construction cost **2234**
estimator, media **1225**

estimator, trade contractors – construction **2234**
etcher – printing **9472**
etcher – visual arts **5136**
etcher and plater, quartz crystals – electronic equipment manufacturing **9483**
etcher helper – printing **9619**
etcher, aircraft parts **9511**
etcher, electrolytic – metal machining **9511**
etcher, firearms **9511**
etcher, optical glasses **9517**
etcher, photoengraving – printing **9472**
etcher, platemaking **9472**
etcher, printed circuit board (PCB) **9483**
etching corrector **9472**
ethnic food cook **6242**
ethnic relations officer – police **6261**
ethnographer **4169**
ethnologist **4169**
ethnology curator **5112**
ethnology museum curator **5112**
etiologist **2121**
etiquette consultant **6481**
etymologist **4169**
evaluation officer, job creation and employment services **4164**
evaluator, uranium ore **9415**
evangelist **4154**
evaporator foreman/woman – chemical processing **9212**
evaporator operator – chemical processing **9421**
evaporator operator – food processing **9461**
evaporator tender – pulp and paper **9432**
event co-ordinator **1226**
event planner **1226**
evergreen grower **8254**
evidence photographer – forensic **5221**
evidence technician – police **6261**
eviscerator, animals – meat packing plant **9462**
eviscerator, poultry **9462**
evoked potential (EP) technologist **3218**
examiner, cars – motor vehicle manufacturing **9482**
examiner, citizenship registration **1228**
examiner, credit unions **1114**
examiner, duplicate film – motion pictures and broadcasting **5227**
examiner, financial institutions **1114**
examiner, fruit – agriculture **8431**
examiner, mines **2263**
examiner, motion picture film – photographic processing **9474**
examiner, motion pictures **5227**
examiner, water leaks – motor vehicle manufacturing **9482**
excavating and grading labour foreman/woman **7217**
excavating contractor **7217**
excavating equipment mechanic **7312**
excavating equipment operators foreman/woman **7217**
excavating machine operator **7421**
excavating, grading and paving foreman/woman **7217**
excavating, grading and related work foreman/woman **7217**
excavation labourer **7611**
excavation worker **7611**
excavations superintendent **7217**
excavator foreman/woman **7217**
excavator oiler **7443**
excavator operator **7421**
excelsior machine tender **9434**
exceptional-child-care worker (except day care) **4212**
exchange clerk **1453**
exchange installer and repairer – telecommunications **7246**
exchange operator – telephone system **1424**
exchange rate clerk – financial sector **1434**
exchange tester **7246**
exchange tester – telecommunications **7246**
excise duty agent **1228**
excise duty officer **1228**
excise duty supervisor **1228**
excise examiner **1228**
excise tax collection supervisor **1228**
excise tax collector **1228**
excise tax inspector **1228**
excise tax officers supervisor **1228**
excise tax programs director – government services **0412**
executive administrator – government agency **0012**
executive administrator – government department **0012**
executive assistant **1222**
executive chef **6241**
executive director – emergency preparedness **0012**
executive director – financial, communications and other business services **0013**
executive director – goods production, utilities, transportation and construction **0016**
executive director – government services **0012**

executive director – health, education, social and community services and membership organizations **0014**
executive director – trade, broadcasting and other services **0015**
executive director, alumni association **0014**
executive director, arts association **0014**
executive director, association **0014**
executive director, automobile association **0015**
executive director, crafts guild **0014**
executive director, credit union **0013**
executive director, environmental group **0014**
executive director, health services institution **0014**
executive director, hospital **0014**
executive director, museum **0511**
executive director, NGO (non-governmental organization) **0014**
executive director, non-governmental organization (NGO) **0014**
executive director, nurse's association **0014**
executive director, professional association **0014**
executive director, recreational association **0014**
executive director, sport governing agency **0513**
executive director, sport governing body **0513**
executive director, teacher's federation **0014**
executive director, voluntary organization **0014**
executive director, YMCA **0014**
executive general manager – health, education, social and community services and membership organizations **0014**
executive housekeeper **6213**
executive pilot **2271**
executive producer, films and videos **0512**
executive recruiter **1223**
executive secretary (except Legal and Medical) **1241**
executive sous-chef **6241**
executive vice-president – financial, communications and other business services **0013**
executive vice-president – goods production, utilities, transportation and construction **0016**
executive vice-president – health, education, social and community services and membership organizations **0014**
executive vice-president – metal and metal products wholesaler **0015**
executive vice-president – railway **0016**
executive vice-president – trade, broadcasting and other services **0015**
executive vice-president, real estate agency **0013**
executor, estate **1114**
exegete **4217**
exercise equipment consultant – retail **6421**
exercise physiologist **4167**
exercise therapist **4167**
exerciser, racehorse **8431**
exhaust and sealing machine operator **9483**
exhaust equipment setter – electronic equipment manufacturing **9483**
exhibit and display designer **5243**
exhibit designer **5243**
exhibit designer – museums and art galleries **5243**
exhibit designers supervisor **5243**
exhibit officer – museum **5212**
exhibit preparator **5212**
exhibit technician **5212**
exhibition co-ordinator **1226**
exhibition designer – museums and art galleries **5243**
expanded duty dental hygienist **3222**
expanded duty dental nurse **3222**
expanding machine operator – metal products manufacturing **9514**
expansion joint builder – rubber products manufacturing **9423**
expansion joint finisher – rubber products manufacturing **9423**
expediter **1473**
expediter, purchasing **1473**
expenditure clerk **1431**
experimental aircraft mechanic **7315**
experimental farm superintendent **0212**
experimental home economist **4164**
experimental physicist **2111**
experimental psychologist **4151**
experimental test pilot **2271**
experimental tire manufacturing inspector **9423**
expert trade consultant **1122**
exploration engineer, mines **2143**
exploration geologist **2113**
exploration geophysicist **2113**
explosive ordnance detector **7383**
explosive primer inspector **9498**
explosive primers dryhouse attendant – chemical processing **9421**
explosive primers dryhouse tender – chemical processing **9421**
explosives and ammunition magazine foreman/woman **1215**
explosives and ammunition magazine keeper **1472**

explosives and ammunition magazine keeper – military **1472**
explosives engineer **2134**
explosives handler **7452**
explosives magazine foreman/woman **1215**
explosives mixer **9421**
explosives mixer tender **9421**
explosives packer **7452**
explosives senior operator **9232**
explosives truck driver **7411**
export company sales representative **6411**
export company technical sales specialist **6221**
export documentation clerk **1441**
export programs manager – government services **0412**
export sales manager **0611**
export sales representative **6411**
export traffic clerk **1441**
export traffic manager **0713**
export traffic supervisor **1215**
export-booking clerk **1471**
exporter **6411**
exports clerk **1441**
express and freight information clerk **1453**
express mail service clerk **1461**
express service clerk – railway **1461**
express service handler (except air transport) **7452**
expropriation officer **1227**
extensible conveyor belt assembler – underground mining **8411**
extension forest ranger **2223**
extension forester **2122**
extension home economist **4164**
extension ranger – forestry **2223**
extension service agronomist **2123**
extension technician, forestry **2223**
exterior cladder **7441**
exterior cladder helper **7611**
exterior plasterer **7284**
exterior set manager **5226**
exterior shooting director **5226**
exterior trailer finisher **9486**
exterior trimmer – building **7441**
exterminating service supervisor **7219**
exterminator **7444**
exterminator, pests **7444**
external cylindrical grinder set-up operator **9511**
external cylindrical-grinder operator **9511**
external relations director **0611**
extra wrangler – motion pictures, broadcasting and performing arts **5226**
extra, performing arts **5135**
extracorporal circulation technologist **3214**
extracorporal technician **3214**
extracorporal technologist **3214**
extract maker – food and beverage processing **9461**
extractive engineer **2142**
extractive metallurgist **2115**
extractive metallurgy engineer **2142**
extractor operator – laundry and dry cleaning **6681**
extractor operator, phenol **9421**
extractor operator, phosphoric acid **9421**
extractor tender – textile manufacturing **9443**
extraparliamentary commission officer **4168**
extruder helper – primary metal processing **9611**
extruder operator – concrete, clay and stone products **9414**
extruder operator – plastic manufacturing **9422**
extruder operator – rubber products manufacturing **9423**
extruder operator, plastic pipes **9422**
extruder operator, welding rods **9516**
extruder tender – mineral products processing **9611**
extruder tender, welding rods **9516**
extruding foreman/woman – primary metal and mineral products processing **9211**
extruding foreman/woman – primary metal processing **9211**
extruding machine helper – rubber and plastic products manufacturing **9615**
extruding machine operator – plastic manufacturing **9422**
extruding machine operator – rubber products manufacturing **9423**
extruding supervisor – rubber and plastic products manufacturing **9214**
extrusion die template maker **7232**
extrusion finisher – rubber products manufacturing **9423**
extrusion foreman/woman – rubber and plastic manufacturing **9214**
extrusion helper – primary metal processing **9611**
extrusion machine operator – plastic manufacturing **9422**
extrusion press operator **9411**
extrusion supervisor – rubber and plastic products manufacturing **9214**
eye specialist **3111**
eyeglass frame assembler **9498**
eyeglass frame cutter **9498**

eyeglass frame inspector and sorter **9498**
eyeglass frame maker **9498**
eyeglass frame polisher **9517**
eyeglass frame trimmer **9619**
eyeglass lens mounter **9498**
eyeglass lenses edger tender – non-prescription **9517**
eyeglass pad cementer **9619**
eyeglasses clerk **1472**
eyeglasses fitter **3231**
eyeglasses frame fitter **3231**
eyelet-punching machine tender **9517**

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fabric artisan **5244**
fabric artist **5244**
fabric cutter – fabric products manufacturing **9452**
fabric design technologist **2233**
fabric designer **5243**
fabric dyer **9443**
fabric examiner **9444**
fabric grader **9444**
fabric hat assembler **9498**
fabric inspector **9444**
fabric installer-repairer – aircraft assembly **9481**
fabric manufacturing inspector **9444**
fabric marker **9452**
fabric mender **9451**
fabric printer **9443**
fabric products embroidery supervisor **9225**
fabric repairer **9451**
fabric salesperson – retail **6421**
fabric sampler **9444**
fabric store manager **0621**
fabrication welder **7265**
fabricator – structural metal **7263**
fabricator and fitter, platework **7263**
fabricator, metal **7263**
fabricator, metal – structural metal and platework **7263**
fabricator, microelectronic circuits **9483**
fabricator, plastic coating **9495**
fabricator, plastic packing **9495**
fabricator, plastic piping **9495**
fabricator, plastic products **9495**
fabricator, platework **7263**
fabricator, quartzware – stone products **9414**
fabricator, reflective signs **9498**
fabricator, steel **7263**
fabricator, steel – structural metal and platework **7263**
fabricator, structural metal **7263**
fabricator, structural steel **7263**
fabricator, wooden modular housing **9493**
fabric-printing machine operator **9443**
fabric-shearing machine fixer – textile manufacturing **7317**
fabric-shearing machine setter – textile manufacturing **7317**
fabric-shearing machine setter-fixer – textile manufacturing **7317**
face boss – underground mining **8221**
faceman/woman – coal mine **8231**
facer operator – woodworking **9513**
facial treatment operator **6482**
facilitator, conference **1122**
facilities designer **5243**
facilities man/woman – telecommunications **7246**
facilities manager, telecommunications **0131**
facilities operations manager **0721**
facilities wirer – telecommunications **7246**
facility maintenance head **0721**
facility maintenance manager **0721**
facility management director **0721**
facility manager, country grain elevator **0721**
facsimile equipment installer **7246**
facsimile operator **1411**
factory assembler, wood products **9493**
factory cleaner **6663**
factory freezer trawler captain **8261**
factory freezer trawler chief marine engineer **2274**
factory freezer trawler first engineer **2274**
factory freezer trawler second engineer **2274**
factory hat sewer **9451**
factory helper **9619**
factory labourer – manufacturing **9619**
factory labourer, garments **9619**
factory maintenance man/woman **6663**
factory maintenance mechanic **7311**
factory maintenance mechanic helper **7612**
factory superintendent **0911**
factory tour guide **6441**
faculty administrator **0312**
faculty of arts dean **0312**
faculty of science dean **0312**
faith healer **4217**
faller – logging **8421**
faller and bucker – logging **8421**
faller and bucker, hardwood **8421**

family and children's services director – government services **0411**
family and estates lawyer **4112**
family benefits director – government services **0411**
family counsellor **4153**
family court administrator **1227**
family court judge **4111**
family court registrar **1227**
family court supervisor **1227**
family doctor **3112**
family law clerk **4211**
family law legal assistant **4211**
family law paralegal **4211**
family physician **3112**
family planning counsellor **4153**
family practitioner **3112**
family resources director **0314**
family service worker **4212**
family services area manager **0314**
family services director – government services **0411**
family social worker **4152**
family therapist **4153**
family violence prevention program adviser **4164**
family worker – home care **6471**
fancy stitch machine operator **9451**
fancy wire drawer – jewellery manufacturing **9517**
fare box collector **6683**
farebox repairer **7445**
farm blacksmith **7383**
farm boss **8253**
farm business foreman/woman **8253**
farm business manager **8251**
farm economist **4162**
farm equipment assembly inspector **9486**
farm equipment mechanic **7312**
farm equipment operator **8431**
farm equipment repair foreman/woman **7216**
farm equipment salesperson **6221**
farm equipment technician **7312**
farm foreman/woman **8253**
farm hand **8431**
farm implement assembler **9486**
farm irrigating system contractor **8252**
farm labourer **8431**
farm labourer, grain **8431**
farm machinery builder **7316**
farm machinery dismantler **9486**
farm machinery fitter **7316**
farm machinery inspection foreman/woman **9226**
farm machinery mechanic **7312**
farm machinery operator **8431**
farm machinery salesperson **6221**
farm management consultant **2123**
farm manager **8251**
farm operation foreman/woman **8253**
farm operation supervisor **8253**
farm produce grading service contractor **8252**
farm produce packing service manager **8252**
farm products marketing director – government services **0412**
farm supervisor **8253**
farm tractor mechanic **7312**
farm tractor repairer **7312**
farm underwriter – insurance **1234**
farm worker **8431**
farm worker, fruit **8431**
farm worker, general **8431**
farm worker, grain **8431**
farm worker, hogs **8431**
farm worker, mushrooms **8431**
farm worker, pheasants **8431**
farm worker, poultry **8431**
farm worker, sugar-beets **8431**
farm worker, tobacco **8431**
farm worker, vegetables **8431**
farm workers supervisor **8253**
farmer (except nursery and fish farm) **8251**
farmer, beef cattle **8251**
farmer, grain and oilseed **8251**
farmer, hog **8251**
farmer, poultry – egg production **8251**
farmer, sheep **8251**
farmer, sugar beet **8251**
farming consultant **2123**
farrier **7383**
fashion and wardrobe consultant **6481**
fashion colour analyst **6481**
fashion colour consultant **6481**
fashion columnist **5123**
fashion consultant **6481**
fashion co-ordinator **5243**
fashion designer **5243**
fashion goods co-ordinator **5243**
fashion goods exhibit co-ordinator **5243**
fashion illustrator **5241**
fashion model **5232**
fashion photographer **5221**
fashion school general manager **0312**
fashion show commentator **5231**
fashion stylist **5243**
fashion teacher – college **4131**

fashion teacher – community college **4131**
fashion wear designer **5243**
fast food delivery driver **7414**
fast food restaurant manager **0631**
fastener, shoe parts **9517**
fastener-driver operator – woodworking **9513**
fast-food preparer **6641**
fast-food service attendant **6641**
fats and oils loader **7452**
feather renovator **6681**
feather washer and dryer **9619**
feature editor **5122**
feature reporter **5123**
feature writer **5121**
federal and intergovernmental affairs research officer – government services **4168**
federal court justice **4111**
federal court justice – trial division **4111**
Federal Court of Appeal justice **4111**
federal trial court justice **4111**
federal-provincial relations chief **0414**
federal-provincial relations director **0414**
federal-provincial relations officer **4168**
feed and flour mills general manager **0016**
feed batch mixer – food and beverage processing **9461**
feed mill loader **7452**
feed mill production worker **9461**
feed miller – food and beverage processing **9461**
feed milling foreman/woman **9213**
feed mixer – food and beverage processing **9461**
feed product sales representative **6411**
feed tester – food and beverage processing **9465**
feeder – printing **9619**
feeder – wood processing **9614**
feeder mill operator – rubber products manufacturing **9423**
feeder switchboard apprentice operator – electrical power system **7352**
feeder switchboard operator – electrical power system **7352**
feeder, brazing machine **9612**
feeder, cold mill – primary metal processing **9611**
feeder, cold rolling mill – primary metal processing **9611**
feeder, cylinder sander – woodworking **9513**
feeder, folding machine – printing **9619**
feeder, furnace – primary metal and mineral products processing **9611**
feeder, knurling machine **9516**
feeder, lithographic offset press **9619**
feeder, logs **9614**
feeder, machine **9619**
feeder, opening machine – rubber products manufacturing **9615**
feeder, optical lens edger – non-prescription **9517**
feeder, pencil-tipping machine **9619**
feeder, planer – woodworking **9513**
feeder, pressing machine – garment manufacturing **9619**
feeder, printing press **9619**
feeder, rubber-cutting machine **9615**
feeder, sanding machine – woodworking **9513**
feeder, screen printing machine **9619**
feeder, slitter-creaser – paper converting **9435**
feeder, soldering machine **9612**
feeder, textile machines **9616**
feeder, tubulating machine – glass products manufacturing **9619**
feeder, vacuum bottle exhaust machine **9619**
feeder, wood products machine **9619**
feeder, woodworking machine **9619**
feedlot assistant **8431**
feedlot farmer **8251**
feedlot foreman/woman **8253**
feedlot herd attendant **8253**
feedlot manager **8251**
feedlot operator **8251**
feedlot worker **8431**
feedyard assistant **8431**
feedyard worker **8431**
feller – logging **8421**
feller-buncher operator **8241**
feller-delimber operator **8241**
feller-forwarder operator **8241**
felling equipment mechanic **7312**
felt cutter, machine **9452**
felt dryer – textile manufacturing **9443**
felt goods labourer **9616**
felt hat finisher **9498**
felt hat finishing room foreman/woman **9225**
felt press machine tender **9616**
felt press tender – textiles **9442**
felting machine tender **9442**
felt-making machine operator **9442**
fence builder **7441**
fence builder, rail **7441**
fence contractor **7219**
fence erector **7441**
fence erector, basket weave **7441**
fence erector, chain link **7441**
fence erector, louvred **7441**
fence erector, metal **7441**
fence erector, wire **7441**

fence erector, wood **7441**
fence installer **7441**
fence-making machine operator, wire mesh **9516**
fencer **5251**
fencing instructor **5254**
feng shui practitioner **6484**
fermentation inspector, wineries **9465**
fermentation process operator – food and beverage processing **9461**
fermenter – tobacco processing **9464**
fermenter operator **9461**
fermentologist **2112**
ferris wheel operator **6671**
ferry operations manager **0713**
ferry operator **7435**
ferry superintendent **0713**
ferry terminal attendant **7435**
ferry terminal worker **7435**
ferryboat captain **2273**
ferryboat deckhand **7433**
ferryboat first mate **2273**
ferryboat master **2273**
ferryboat operator **2273**
fertilization service manager – agriculture **8252**
fertilizer maker, phosphate process **9232**
fertilizer mixer **9421**
festival organizer **1226**
fettler – clay products manufacturing **9611**
fibre classer **9441**
fibre examiner – textiles **9444**
fibre glass insulation specialists foreman/woman **7219**
fibre grader – textiles **9444**
fibre inspector – textiles **9444**
fibre insulators foreman/woman **7219**
fibre mixer **9441**
fibre optic cable splicer **7245**
fibre optics technician **2241**
fibre optics technologist **2241**
fibre strap machine tender **9517**
fibre washer **9441**
fibreglass binder mixer **9421**
fibreglass boat assembler **9491**
fibreglass boat foreman/woman **9227**
fibreglass boat inspector and finisher **9491**
fibreglass filter assembler **9495**
fibreglass inspector **9495**
fibreglass insulation installer **7293**
fibreglass laminator **9495**
fibreglass layup man/woman – plastic manufacturing **9495**
fibreglass layup worker – plastic manufacturing **9495**
fibreglass machine operator – plastic manufacturing **9422**
fibreglass moulder **9422**
fibreglass oven helper **9611**
fibreglass plastics foreman/woman **9214**
fibreglass plastics processing supervisor **9214**
fibreglass roving winder **9441**
fibreglass tester **9415**
fibreglass-forming machine repairer **7311**
fibreglass-spraying machine operator **9422**
fibre-optic network designer **2147**
fiction writer **5121**
field adjuster – insurance **1233**
field agent – insurance **6231**
field and vegetable crop labourer **8431**
field artilleryman/woman – military **6464**
field auditor – finances **1111**
field auditor – taxation **1228**
field coil taper – industrial electrical equipment **9485**
field crop and vegetable workers foreman/woman **8253**
field crop and vegetable-growing worker **8431**
field crop foreman/woman **8253**
field crop technician **2221**
field crop technologist **2221**
field director – manufacturing **0911**
field engineer – military **6464**
field engineer equipment operator – military **7421**
field measurement hand – utilities **7442**
field mechanic helper **7612**
field mechanic, heavy equipment **7312**
field office supervisor – forestry **2223**
field officer, veterans' affairs **4212**
field operator – pulp and paper **9432**
field reporter **5123**
field representative – housing **4164**
field sales manager **0611**
field salesperson – wholesale **6411**
field service adviser – agriculture **2123**
field service agent – agriculture **2123**
field service manager – postal and courier services **0132**
field service technician – household and business equipment **2242**
field service technician, electronic products **2242**
field supervisor – occupational health and safety **2263**
field supervisor, ambulance services **3234**
field supervisor, oil well servicing **8222**

field teaching co-ordinator **0312**
field technician, air pollution **2231**
field-grown crop farm labourer **8611**
field-grown crop foreman/woman **8253**
field-grown crop workers foreman/woman **8253**
fifth hand – pulp and paper **9614**
fifth-class stationary engineer **7351**
figure – skating evaluator **5253**
figure skater **5251**
figure-skating coach **5252**
figure-skating judge **5253**
filament coater **9497**
filament mounter, hand **9484**
filament stem inspector – electronic equipment manufacturing **9483**
filament tester – electronic equipment manufacturing **9483**
file and classification clerk **1413**
file clerk **1413**
file cutter – metal machining **9511**
file maker – metal machining **9511**
file manager **1122**
file preparation operator **1423**
filer, circular saws **7383**
filer, forest products saws **7383**
filer, hand – metal products manufacturing **9612**
filer, jewellery **9498**
filer, photographs – library **1451**
filigree finisher **9517**
filigree wire drawer – jewellery manufacturing **9517**
filing clerk **1413**
filing clerk, mail **1461**
filing clerks supervisor **1211**
filing service supervisor **1211**
filing systems analyst **1122**
fill foreman/woman – underground mining **8221**
filler – food and beverage processing **9617**
filler, animal feed sacks **9617**
filler, electrical lead acid storage batteries **9487**
filler, moulds – clay products **9414**
filler, sporting goods **9619**
filler, stamps **9619**
filler-stripper, moulds – plastic manufacturing **9495**
fillet chopper – fish processing **9463**
filleting machine operator – fish processing **9463**
filleting machine setter – fish processing **9463**
filling carrier – textile processing **9616**
filling machine operator – fish products **9463**
filling machine setter – food and beverage processing **9461**
filling machine set-up man/woman – food and beverage processing **9461**
filling machine tender – electrical equipment manufacturing **9487**
filling station attendant **6621**
film and video executive producer **0512**
film assembler **9472**
film camera operator **5222**
film cameraman/woman **5222**
film counter clerk **6421**
film critic **5123**
film cutter – film processing **9619**
film developer **9474**
film developers foreman/woman **7218**
film developers supervisor **7218**
film director **5131**
film dubber **5135**
film editor **5131**
film filing clerk **1413**
film location manager **5226**
film mounter – film processing **9619**
film numberer – film processing **9619**
film printers foreman/woman **7218**
film printing foreman/woman **7218**
film printing machine operator **9474**
film printing supervisor **7218**
film processing foreman/woman **7218**
film processing supervisor **7218**
film processing technician **9474**
film processor **9474**
film processors foreman/woman **7218**
film producer **5131**
film production manager **0512**
film projectionist **5227**
film quality inspector **5227**
film rental clerk **6421**
film sizer **9472**
film splicer – photographic processing **9474**
film spooler **9613**
film stripper and layout specialist – printing **9472**
film stripper specialist – printing **9472**
film stripper-assembler – printing **9472**
film technician **5225**
film technician – motion picture **5225**
film-coating machine tender – tobacco products **9617**
film-developing machine tender **9474**
filmmaker **5131**
film-printing machine tender **9474**
film-processing machine operator **9474**
film-processing unit assembler **9498**
films and recordings library clerk **1451**

filmsetter operators supervisor **7218**
filmsetters supervisor **7218**
filter assembler **9498**
filter assembler – electronic equipment manufacturing **9483**
filter cigarette machine tender **9464**
filter cleaner – chemical processing **9613**
filter leaves cleaner – primary metal and mineral products processing **9611**
filter operator – petroleum, gas and chemical processing **9232**
filter plant foreman/woman – primary metal and mineral products processing **9211**
filter plant operator – water treatment **9424**
filter press tender – chemical processing **9421**
filter rod machine operator – tobacco products **9464**
filter tip inspector – tobacco processing **9465**
filtering attendant – primary metal and mineral products processing **9611**
filterman/woman – pulp and paper **9432**
filtration helper – chemical processing **9613**
filtration plant controller – water treatment **9424**
final assembler, electrical control panel **9485**
final assembler, garment manufacturing **9619**
final assembly inspector, watches **9498**
final colour production painter **9496**
final inspector, automobiles – automobile assembly **9482**
final inspector, furniture assembly **9492**
final inspector, garments **9454**
final inspector, snowmobile **9486**
final inspector, truck trailer **9486**
final-assembly and testing foreman/woman – electronic equipment manufacturing **9222**
final-assembly and testing supervisor – electronic equipment manufacturing **9222**
final-assembly inspector – aircraft assembly **9481**
final-assembly inspector, aircraft **9481**
final-assembly supervisor – motor vehicle manufacturing **9221**
final-assembly tester – electronic equipment manufacturing **9483**
finance and administration director **0114**
finance and administration vice-president – financial, communications and other business services **0013**
finance and administration vice-president – goods production, utilities, transportation and construction **0016**
finance and administration vice-president – health, education, social and community services and membership organizations **0014**
finance and administration vice-president – trade, broadcasting and other services **0015**
finance and commercial affairs analyst **1112**
finance and control manager **0111**
finance and credit administrator – international banking **1114**
finance chief **0111**
finance clerk **1431**
finance clerk – military **1431**
finance director **0111**
finance manager **0111**
finance officer **1112**
finance secretary **1241**
finance vice-president – financial, communications and other business services **0013**
finance vice-president – food wholesaling **0015**
finance vice-president – goods production, utilities, transportation and construction **0016**
finance vice-president – health, education, social and community services and membership organizations **0014**
finance vice-president – holding company **0013**
finance vice-president – mining company **0016**
finance vice-president – trade, broadcasting and other services **0015**
financial accountant **1111**
financial accounting supervisor **1212**
financial administrator **0111**
financial aid officer **1221**
financial analysis consultant **1112**
financial analyst **1112**
financial and administrative services chief **0114**
financial assistance co-ordinator – college or university **1221**
financial assistance officer **1221**
financial assistance officer – social assistance **4212**
financial assistance worker – welfare **4212**
financial audit manager **0111**
financial auditor **1111**
financial broker **1113**
financial brokerage manager **0121**
financial clerk – financial sector **1434**
financial collector **1435**
financial control manager **0111**
financial control officer **1111**
financial control supervisor **1212**
financial controller **0111**

financial customer service representative **1433**
financial director **0111**
financial economist **4162**
financial editor **5122**
financial evaluations director **0111**
financial institutions examiner **1114**
financial institutions inspector **1114**
financial investigation clerk **1431**
financial investigator **1114**
financial management officer **1114**
financial management officer – pension plan analysis **1114**
financial management officer – program budgeting **1114**
financial manager **0111**
financial market economist **4162**
financial news editor **5122**
financial officer **1112**
financial planner – personal finances **1114**
financial planning and advisory service manager **0111**
financial planning and analysis manager **0111**
financial planning and reporting director **0111**
financial planning and reporting manager **0111**
financial reporter **5123**
financial resources service co-ordinator **0111**
financial services consultant **1112**
financial services sales representative **6411**
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fire crewman/woman **8422**
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fire department assistant manager **0642**
fire department chief **0642**
fire department dispatcher **1475**
fire department division chief **0642**
fire department duty officer **0642**
fire department platoon chief **6262**
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fire equipment servicer **7445**
fire equipment servicer helper **7612**
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fire insurance adjuster **1233**
fire insurance agent **6231**
fire insurance salesman/woman **6231**
fire lieutenant **6262**
fire lookout **8422**
fire marshal **0012**
fire patrol pilot **2271**
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First Nations band council member **0011**
First Nations band manager **0012**
First Nations counsellor – Education **4143**
First Nations government leader **0011**
First Nations studies program academic adviser **4143**
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flight crew supervisor **1215**
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flight dispatcher **2272**
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folk singer **5133**
folkloric dance teacher **5134**
folkloric dancer **5134**
food and beverage control clerk – inventory **1431**
food and beverage processing foreman/woman **9213**
food and beverage processing grader **9465**
food and beverage processing supervisor **9213**
food and beverage production manager **0911**
food and beverage server **6453**
food and beverage service manager **0631**
food and beverage service runner assistant **6641**
food and nutrition technician – dietetics **3219**
food animal veterinarian **3114**
food assembler – fast food **6641**

food assembly supervisor **6212**
food bacteriological technician **2221**
food bacteriological technologist **2221**
food bacteriologist **2121**
food buyer **6233**
food chemist **2112**
food consultant – home economics **4164**
food controller – inventory **1431**
food counter attendant **6641**
food damage inspector **2263**
food delivery driver **7414**
food demonstrator – retail **6623**
food preparer **6641**
food processing engineer **2148**
food processing labourer **9617**
food processing quality control technician **2211**
food processing quality control technologist **2211**
food product sampler **9617**
food product testers supervisor **9213**
food production manager **0911**
food products bacteriologist **2121**
food products inspector **2222**
food products sales representative **6411**
food products scientist **2121**
food purchasing director **0113**
food purchasing manager **0113**
food research scientist **2121**
food safety programs manager – government services **0411**
food science professor – university **4121**
food scientist **2121**
food service attendant **6641**
food service counter attendant **6641**
food service driver **7414**
food service helper **6641**
food service supervisor **6212**
food service supervisor, hospital **6212**
food services manager **0631**
food services officer, base – military **0631**
food services sales representative **6411**
food services steward – military **0631**
food slicer – food and beverage processing **9461**
food store cashier **6611**
food store clerk – retail **6421**
food store department manager – retail **0621**
food store manager **0621**
food store supervisor **6211**
food stylist **5243**
food technician **2211**
food technologist **2211**
food technology engineer **2148**
food testing foreman/woman – food and beverage processing **9213**
food testing supervisor **9213**
food-colouring equipment operator **9461**
food-cooling pan tender **9617**
food-flavouring equipment tender **9461**
food-mixing machine tender **9461**
food-packaging equipment assembly inspector **9486**
food-processing equipment cleaner **9617**
food-processing machine fitter **7316**
food-processing plant manager **0911**
foot specialist **3123**
football coach **5252**
football player **5251**
football scout **5252**
football team coach **5252**
footballer **5251**
footman/woman – underground mining **8411**
footwear finishing foreman/woman **9225**
footwear inspection foreman/woman – rubber manufacturing **9214**
footwear inspection supervisor – rubber products manufacturing **9214**
footwear manufacturing labourer **9619**
footwear moulding press feeder – rubber products manufacturing **9615**
footwear parts trimmer – footwear manufacturing **9517**
footwear presser – plastic manufacturing **9422**
footwear salesperson – retail **6421**
footwear sewer **9451**
footwear sorter – rubber products manufacturing **9615**
forage crop farmer **8251**
forced air furnace installer (except gas) **7331**
forecaster, weather **2114**
foreclosures clerk **4211**
foreclosures legal assistant **4211**
foreclosures paralegal **4211**
foreign affairs reporter **5123**
foreign broadcast translator **5125**
foreign correspondent **5123**
foreign currency accounts adjuster – financial sector **1434**
foreign exchange clerk – financial sector **1434**
foreign exchange dealer **1113**
foreign exchange teller – financial services **1433**
foreign exchange trader **1113**
foreign interbanking arrangements officer **1114**
foreign invoice clerk **1431**
foreign news broadcasting editor **5122**

foreign news correspondent **5123**
foreign news service editor **5122**
foreign news translator **5125**
foreign remittance clerk – financial sector **1434**
foreign-going first mate **2273**
foreign-going second mate **2273**
foreign-service officer **4168**
foreman/forewoman, laundry and dry cleaning workers and press operators **6214**
foreman/woman – electronic equipment manufacturing **9222**
foreman/woman – laundry and dry cleaning **6214**
foreman/woman – motor vehicle manufacturing **9221**
foreman/woman – petroleum, gas and chemical processing **9212**
foreman/woman – railway transport **7221**
foreman/woman – textile processing **9216**
foreman/woman, abattoir **9213**
foreman/woman, agricultural equipment assembly **9226**
foreman/woman, air conditioning and refrigeration **7216**
foreman/woman, air conditioning and refrigeration mechanics **7216**
foreman/woman, air conditioning mechanics **7216**
foreman/woman, aircraft assembly **9226**
foreman/woman, aircraft engine assemblers **7216**
foreman/woman, aircraft engine assembly **7216**
foreman/woman, aircraft engine fitters **7216**
foreman/woman, aircraft engine repair **7216**
foreman/woman, aircraft fuselage assembly **9226**
foreman/woman, aircraft maintenance mechanics – aircraft mechanical systems **7216**
foreman/woman, aircraft mechanical systems mechanics **7216**
foreman/woman, aircraft mechanics **7216**
foreman/woman, aircraft mechanics and inspectors **7216**
foreman/woman, aircraft mechanics and inspectors – mechanical systems **7216**
foreman/woman, aircraft mechanics and repairers – mechanical systems **7216**
foreman/woman, aircraft painters **9226**
foreman/woman, aircraft servicing **7216**
foreman/woman, annealing **9211**
foreman/woman, annealing – primary metal processing **9211**
foreman/woman, anodizing – primary metal processing **9211**
foreman/woman, apple orchard **8253**
foreman/woman, appliance repair shop **7216**
foreman/woman, asphalt paving **7217**
foreman/woman, asphalt roofers **7219**
foreman/woman, assemblers – rubber and plastic manufacturing **9214**
foreman/woman, assembly – motor vehicle manufacturing **9221**
foreman/woman, assembly mechanics **7216**
foreman/woman, automobile assembly **9221**
foreman/woman, automobile mechanics **7216**
foreman/woman, automotive body repair **7216**
foreman/woman, automotive body repair shop **7216**
foreman/woman, automotive body shop **7216**
foreman/woman, automotive engine repair **7216**
foreman/woman, automotive machine shop **7211**
foreman/woman, automotive service mechanics **7216**
foreman/woman, baby carriage assembly **9227**
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foreman/woman, baking – food and beverage processing **9213**
foreman/woman, baking and confectionery making **9213**
foreman/woman, ball and roller-bearings assembly **9226**
foreman/woman, beam department – hide and pelt processing **9225**
foreman/woman, beater room – pulp and paper **9215**
foreman/woman, beef boning and cutting **9213**
foreman/woman, beef dressing **9213**
foreman/woman, belt building – rubber manufacturing **9214**
foreman/woman, bench assemblers – wood products **9227**
foreman/woman, bicycle assembly **9227**
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foreman/woman, bindery – printing **7218**
foreman/woman, blacksmith shop **7214**
foreman/woman, blacksmiths **7214**
foreman/woman, blasters – construction **7217**
foreman/woman, blasters – quarrying **8221**
foreman/woman, blasters – surface mining **8221**
foreman/woman, blasting – mining and quarrying **8221**
foreman/woman, bleach plant – pulp and paper **9215**
foreman/woman, bleaching – textiles **9216**
foreman/woman, blow moulding – rubber and plastic manufacturing **9214**

foreman/woman, boat engine repair **7216**
foreman/woman, body shop **7216**
foreman/woman, boiler and pipe insulation specialists **7219**
foreman/woman, boiler and pipe insulators **7219**
foreman/woman, boilermakers **7214**
foreman/woman, boilermakers, platers, and structural metal workers **7214**
foreman/woman, boilermaking shop **7214**
foreman/woman, boiling house – food and beverage processing **9213**
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foreman/woman, bottling – food and beverage processing **9213**
foreman/woman, box making – paper converting **9215**
foreman/woman, brick and stone masons **7219**
foreman/woman, bricklayer **7219**
foreman/woman, bridge construction **7217**
foreman/woman, bridge painters **7219**
foreman/woman, brush making **9227**
foreman/woman, buffing and lacquering – furniture and fixtures manufacturing **9224**
foreman/woman, building construction inspectors **2264**
foreman/woman, building insulation specialists **7219**
foreman/woman, building insulators **7219**
foreman/woman, building movers **7217**
foreman/woman, bus and truck repair **7216**
foreman/woman, business and commercial machines assembly **9222**
foreman/woman, cabinet assemblers and wood furniture makers **9224**
foreman/woman, cabinetmakers **7215**
foreman/woman, cabinetmakers – furniture manufacturing **7215**
foreman/woman, cable installations **7212**
foreman/woman, cable splicers – telecommunications **7212**
foreman/woman, cable television system installers and repairers **7212**
foreman/woman, cablevision technicians **7212**
foreman/woman, calendering – rubber and plastic manufacturing **9214**
foreman/woman, candle making **9227**
foreman/woman, cannery – food processing **9213**
foreman/woman, canvas products manufacturing **9225**
foreman/woman, carpenters **7215**
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foreman/woman, casting operations **9211**
foreman/woman, casting room **9211**
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foreman/woman, cement processing **9211**
foreman/woman, cemetery **8256**
foreman/woman, chair assembly – furniture and fixtures manufacturing **9224**
foreman/woman, char house – food and beverage processing **9213**
foreman/woman, chemical **9212**
foreman/woman, chemical processing plant **9212**
foreman/woman, chocolate candies processing **9213**
foreman/woman, chocolate refining **9213**
foreman/woman, cigarette inspectors **9213**
foreman/woman, cigarettes graders **9213**
foreman/woman, clay products manufacturing **9211**
foreman/woman, clay shop **9211**
foreman/woman, clay, glass and stone furnace and kiln operations **9211**
foreman/woman, clock and watch assembly **9227**
foreman/woman, clock and watch assembly repairers **9227**
foreman/woman, clock and watch inspection **9227**
foreman/woman, clothing manufacturing **9225**
foreman/woman, coal and coke crushing and grinding **9211**
foreman/woman, coating and calendering workers – chemical processing **9212**
foreman/woman, coating room – pulp and paper **9215**
foreman/woman, coffee roasting **9213**
foreman/woman, coke screening – mineral and metal processing **9211**
foreman/woman, composing – printing **7218**
foreman/woman, compositors – printing **7218**
foreman/woman, concentrator – primary metal and mineral products processing **9211**
foreman/woman, concrete and cement finishers **7219**
foreman/woman, concrete finishers **7219**
foreman/woman, concrete form builders – carpentry **7215**
foreman/woman, concrete paving **7217**
foreman/woman, concrete products **9211**
foreman/woman, confectionery **9213**
foreman/woman, construction electricians **7212**
foreman/woman, construction electricians and repair workers **7212**
foreman/woman, construction machinery assembly **9226**

foreman/woman, construction painters **7219**
foreman/woman, controlling and recording instruments assembly **9227**
foreman/woman, converter – primary metal and mineral products processing **9211**
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foreman/woman, coremaking – foundry **9211**
foreman/woman, coremaking – mineral processing **9211**
foreman/woman, coremaking – paper converting **9215**
foreman/woman, cosmetics processing **9212**
foreman/woman, crane crew **7217**
foreman/woman, crushing and grinding operations – primary metal and mineral products processing **9211**
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foreman/woman, curing – rubber manufacturing **9214**
foreman/woman, curing room – tobacco processing **9213**
foreman/woman, cutlery manufacturing **9227**
foreman/woman, dairy farm workers **8253**
foreman/woman, dairy products processing **9213**
foreman/woman, decorating – furniture and fixtures manufacturing **9224**
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foreman/woman, diamond drilling **8221**
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foreman/woman, distilling **9213**
foreman/woman, door and sash assembly **9227**
foreman/woman, dredging equipment operators **7217**
foreman/woman, dressmaking department **9225**
foreman/woman, drilling – mining and quarrying **8221**
foreman/woman, drilling and blasting – construction **7217**
foreman/woman, dry starch – food processing **9213**
foreman/woman, drywall applicators **7219**
foreman/woman, dye department – textiles **9216**
foreman/woman, dye room – textile processing **9216**
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foreman/woman, electric motor and generator assembly **9223**
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foreman/woman, electrical construction **7212**
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foreman/woman, electrical switchgear assembly **9223**
foreman/woman, electrical transformer assembly **9223**
foreman/woman, electricians **7212**
foreman/woman, electromechanical technicians **7216**
foreman/woman, electronic assembly **9222**
foreman/woman, electronic equipment fabricating and assembling **9222**
foreman/woman, electronic equipment fabricating and assembling workers **9222**
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foreman/woman, electronics manufacturing **9222**
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foreman/woman, elevator construction **7216**
foreman/woman, elevator constructors **7216**
foreman/woman, elevator mechanics **7216**
foreman/woman, engine assembly (except aircraft) **9226**
foreman/woman, engine guard assembly (except aircraft) **9226**
foreman/woman, engine overhaul **7216**
foreman/woman, engine rebuilding shop (except aircraft) **9226**
foreman/woman, engine testing (except aircraft) **9226**
foreman/woman, engravers (except photoengravers) – printing **7218**
foreman/woman, engraving (except photoengraving) – printing **7218**
foreman/woman, evaporator – chemical processing **9212**

foreman/woman, excavating equipment operators **7217**
foreman/woman, excavating, grading **7217**
foreman/woman, excavating, grading and paving **7217**
foreman/woman, extruding – primary metal and mineral products processing **9211**
foreman/woman, extruding – primary metal processing **9211**
foreman/woman, extruding – rubber and plastic manufacturing **9214**
foreman/woman, extrusion – rubber and plastic manufacturing **9214**
foreman/woman, fabric-cutting department **9225**
foreman/woman, farm **8253**
foreman/woman, farm equipment repair **7216**
foreman/woman, feed milling **9213**
foreman/woman, feedlot **8253**
foreman/woman, fibre glass insulation specialists **7219**
foreman/woman, fibre insulation **7219**
foreman/woman, fibre insulators **7219**
foreman/woman, fibreglass boat assembly **9227**
foreman/woman, fibreglass plastics **9214**
foreman/woman, field crop and vegetable workers **8253**
foreman/woman, fill – underground mining **8221**
foreman/woman, film developers **7218**
foreman/woman, film printers **7218**
foreman/woman, film printing **7218**
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foreman/woman, film processors **7218**
foreman/woman, filter plant – primary metal and mineral products processing **9211**
foreman/woman, final assembly and test – electronics manufacturing **9222**
foreman/woman, finish carpenters **7215**
foreman/woman, finish joiners **7215**
foreman/woman, finishing – plastic manufacturing **9214**
foreman/woman, finishing – printing **7218**
foreman/woman, finishing – rubber manufacturing **9214**
foreman/woman, finishing and trimming – rubber and plastic manufacturing **9214**
foreman/woman, finishing department – textiles **9216**
foreman/woman, fire protection equipment installers **7213**
foreman/woman, firearms assembly **9227**
foreman/woman, fireproofing plasterers **7219**
foreman/woman, fish canning, curing and packing workers **9213**
foreman/woman, fish freezing **9213**
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foreman/woman, floor and wall covering installers **7219**
foreman/woman, floor covering **7219**
foreman/woman, flour mill **9213**
foreman/woman, foam insulators **7219**
foreman/woman, foam products inspection – rubber manufacturing **9214**
foreman/woman, food and beverage processing **9213**
foreman/woman, footwear inspection – rubber manufacturing **9214**
foreman/woman, footwear manufacturing **9225**
foreman/woman, forestry **8211**
foreman/woman, forge shop – metal products manufacturing **9226**
foreman/woman, forging-machine operators **9226**
foreman/woman, form builders **7215**
foreman/woman, foundry **9211**
foreman/woman, framers **7215**
foreman/woman, freight terminal **7217**
foreman/woman, fruit farm **8253**
foreman/woman, fruit farm workers **8253**
foreman/woman, fruit grading **9213**
foreman/woman, fruit-and-vegetable canning, preserving and packing workers **9213**
foreman/woman, fur dressing – hide and pelt processing **9225**
foreman/woman, fur products manufacturing **9225**
foreman/woman, fur-hatmaking department **9225**
foreman/woman, furnace installers **7216**
foreman/woman, furnace operations – primary metal and mineral products processing **9211**
foreman/woman, furniture assembly – furniture and fixtures manufacturing **9224**
foreman/woman, furniture components sanding department **9224**
foreman/woman, furniture finishers – furniture and fixtures manufacturing **9224**
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foreman/woman, furniture inspectors – furniture and fixtures manufacturing **9224**
foreman/woman, furriers **9225**
foreman/woman, galvanizing **9226**

foreman/woman, galvanizing – metal and mineral products processing **9211**
foreman/woman, garden tractor assembly **9226**
foreman/woman, garment manufacturing **9225**
foreman/woman, gas distribution **9212**
foreman/woman, gas fitters **7213**
foreman/woman, gas plant **9212**
foreman/woman, gas service **7213**
foreman/woman, general carpenters **7215**
foreman/woman, glass cutting **9211**
foreman/woman, glass engraving **9211**
foreman/woman, glass forming **9211**
foreman/woman, glass furnace **9211**
foreman/woman, glass grinding and polishing **9211**
foreman/woman, glass installators **7219**
foreman/woman, glass installers **7219**
foreman/woman, glass processing **9211**
foreman/woman, glass products manufacturing **9211**
foreman/woman, glaziers **7219**
foreman/woman, glove manufacturing **9225**
foreman/woman, gluing – furniture and fixtures manufacturing **9224**
foreman/woman, grading equipment operators **7217**
foreman/woman, greenhouse installers **7219**
foreman/woman, grinding and packing – chemical processing **9212**
foreman/woman, ground crew – aircraft maintenance **7216**
foreman/woman, groundskeeping **8256**
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foreman/woman, hand tool manufacturing **9227**
foreman/woman, handbag manufacturing **9225**
foreman/woman, hat and cap makers **9225**
foreman/woman, hat trimming department **9225**
foreman/woman, hatchery workers **8253**
foreman/woman, heating plant **9212**
foreman/woman, heating systems mechanics **7216**
foreman/woman, heavy agricultural machinery assembly **7216**
foreman/woman, heavy construction crew **7217**
foreman/woman, heavy construction equipment assembly **7216**
foreman/woman, heavy construction labourers **7217**
foreman/woman, heavy equipment assembly **7216**
foreman/woman, heavy equipment mechanics **7216**
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foreman/woman, heavy machinery assembly **7216**
foreman/woman, heavy-duty equipment mechanics **7216**
foreman/woman, heavy-duty equipment operators **7217**
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foreman/woman, helicopter maintenance – mechanical systems **7216**
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foreman/woman, hide-house – hide and pelt processing **9225**
foreman/woman, highway construction **7217**
foreman/woman, highway construction inspectors **2264**
foreman/woman, hosiery **9216**
foreman/woman, hot composition – printing **7218**
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foreman/woman, household electrical appliance repair shop **7216**
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foreman/woman, ice cream making **9213**
foreman/woman, incinerator **9212**
foreman/woman, industrial electricians **7212**
foreman/woman, industrial machinery assembly **7216**
foreman/woman, industrial machinery manufacturing **7216**
foreman/woman, industrial machinery mechanics **7216**
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foreman/woman, industrial truck assembly **9226**
foreman/woman, industrial, farm and construction machinery mechanics and repairers **7216**
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foreman/woman, ink preparation – chemical processing **9212**
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foreman/woman, inspection – textiles **9216**
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foreman/woman, insulation specialists **7219**
foreman/woman, insulators **7219**
foreman/woman, ironworkers **7214**
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foreman/woman, jewellery repairing – manufacturing **9227**
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foreman/woman, knitting – textile processing **9216**
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foreman/woman, letterpress – printing **7218**
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foreman/woman, zoo **2221**
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forensic examiner – alcohol **2211**
forensic examiner, hair and fibre **2221**
forensic lab analyst, chemical **2211**
forensic laboratory technician **2211**
forensic laboratory technologist, biological **2221**
forensic pathologist **3111**
forensic photographer **5221**
forensic psychologist **4151**
forest assistant nursery **8432**
forest ecologist **2121**
forest economist **4162**
forest engineer **2122**
forest engineering technician **2223**
forest engineering technologist **2223**
forest extension technician **2223**
forest fire officer **2223**
forest fire ranger **2223**
forest fire technician **2223**
forest firefighter **8422**
forest firefighting crew leader **2223**
forest inventory resource officer **2223**
forest nursery forester **2122**
forest nursery worker **8432**
forest operations supervisor **8211**
forest pathologist **2121**
forest planning technician **2223**
forest products processing supervisor **9215**
forest products saw filer **7383**
forest products technologist **2211**
forest protection co-ordinator **2223**
forest ranger – wildlife management **2224**
forest regional inventory technician **2223**
forest research technologist **2223**
forest resource analysis chief – government services **0412**
forest resource management technician **2223**
forest resource technician **2223**
forest resources economist **4162**
forest spray pilot **2271**
forest survey technician **2223**
forest technician **2223**
forest worker – logging **8421**
forester **2122**
forester, Crown lands **2122**
forester, extension **2122**
forester, parks and recreation **2122**
forester, private lands **2122**
forester, professional **2122**
forester, projects **2122**
forester, research **2122**
forestry and logging manager **0811**
forestry conservation contractor **8211**
forestry conservation technician **2223**
forestry conservation technologist **2223**
forestry conservation worker **8422**
forestry crew co-ordinator **2223**
forestry crew person **8422**
forestry crew supervisor **8211**
forestry crewman/woman **8422**
forestry equipment sales representative **6221**
forestry extension technician **2223**
forestry foreman/woman **8211**
forestry labourer **8616**

forestry machinery sales representative **6221**
forestry operations manager **0811**
forestry patrol pilot **2271**
forestry policy director – government services **0412**
forestry professor – university **4121**
forestry programs manager – government services **0412**
forestry superintendent **2122**
forestry supervisor **8211**
forestry technician **2223**
forestry technologist **2223**
forestry worker – logging **8422**
forge equipment repairer **7311**
forge helper **9612**
forge manipulator operator **9512**
forge shop foreman/woman – metal products manufacturing **9226**
forge shop machinery mechanic **7311**
forge shop machinery repairer **7311**
forger helper **9612**
forgers foreman/woman – metal products manufacturing **9226**
forging air hammer operator **9512**
forging die finisher **7232**
forging die maker **7232**
forging inspector **2261**
forging machine operator **9512**
forging machine setter **9512**
forging machine set-up man/woman **9512**
forging press operator **9512**
forging press tender **9512**
forging roll operator **9512**
forklift mechanic **7334**
forklift operator **7452**
forklift truck operator **7452**
form builders foreman/woman **7215**
form carpenter **7271**
form layout designer **5241**
form remover – construction **7611**
form setter, metal – construction **7611**
form stripper – construction **7611**
formal service waiter/waitress **6453**
formation fracturing operator – oil field services **8412**
formatter operator – typesetting **1423**
former, blisters – plastic products manufacturing **9495**
former, corrugated asbestos board **9414**
former, heavy-duty coils – industrial electrical equipment **9485**
former, metal nuts **9516**
former, metal-sheathed insulation **9498**
former, Plexiglas **9495**
former, pottery and porcelain – clay products **9414**
former, shoe parts **9619**
former, wire screens **9516**
forming line operator, hardboard **9434**
forming machine operator – concrete, clay and stone products **9414**
forming machine operator – metal fabrication **9514**
forming machine operator, particleboard **9434**
forming press operator – metal fabrication **9514**
forming roll set-up operator – metal fabrication **9514**
forming roll tender – metal fabrication **9514**
forming room operator – electrical equipment manufacturing **9487**
forming-cutting operator – glass products **9413**
forms control clerk **1441**
forms designer **5241**
forms management analysts supervisor **1122**
forms management officer **1221**
formula weigher – rubber and plastic products manufacturing **9615**
formulation blender operator, pesticides **9421**
formulation technician **2211**
formulations blender operator – chemical processing **9421**
fortune teller **6484**
forwarder – printing **9619**
forwarder operator – logging **8241**
forwarder, freight **0713**
fossil conservator **5112**
fossil curator **5112**
fossil recovery and reparation technician **5212**
foster father **6471**
foster mother **6471**
foster parent **6471**
foundation dampproofer helper **7611**
foundation drill operator **7372**
foundation drill operator – construction **7372**
foundation drill operator helper **7611**
foundation engineer **2131**
foundation garments inspector **9454**
foundation maker, hats – fabric products manufacturing **9498**
foundation technologist **2231**
foundation waterproofer, construction **7611**
foundry engineer **2142**
foundry foreman/woman **9211**
foundry furnace operator **9412**

foundry helper – primary metal processing **9611**
foundry laboratory technician **2212**
foundry labourer **9611**
foundry manager **0911**
foundry mould finisher **9612**
foundry mouldmaker **9412**
foundry pourer **9412**
foundry sand mixer **9412**
foundry sand tester **9415**
foundry supervisor **9211**
foundry worker **9412**
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fountain pen inspector **9498**
fountain pen maker **9498**
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fourth-class stationary engineer **7351**
foxer – footwear **9517**
foxer – rubber goods **9423**
frac driver – oil field services **8412**
fractionator operator **9232**
fracture room attendant **3414**
fracturing supervisor – oil field services **8222**
frame assembler – motor vehicle manufacturing **9482**
frame assembler, wood furniture **9492**
frame builder, buses and trucks **9486**
frame fitter – museums and art galleries **5212**
frame machine operator, tents **9516**
frame maker – furniture manufacturing **9492**
frame maker, eyeglasses **9498**
frame moulding finisher – furniture manufacturing **9494**
frame moulding painter – furniture manufacturing **9494**
frame spinner – textile manufacturing **9441**
frame table operator – woodworking **9513**
frame wirer – telephone **7246**
frameman/woman – telecommunications **7246**
framer – laundry and dry cleaning **6682**
framer – museum and art gallery **5212**
framer helper – construction **7611**
framer, mirrors **9498**
framer, poles – wood products **9513**
framer-carpenter **7271**
framers foreman/woman **7215**
framework finisher, dentures **3223**
framing carpenter **7271**
framing sales consultant – retail **6421**
framing technician **5212**
frazer – woodworking **9513**
frazing machine operator – woodworking **9513**
freedom to information officer **1221**
freelance announcer **5231**
freeze tumbler tender – rubber products manufacturing **9423**
freeze-dry food processor **9461**
freezer operator – food and beverage processing **9461**
freezer worker – food and beverage processing **9617**
freezing worker – food and beverage processing **9617**
freight adjuster – insurance **1233**
freight agent – railway **6434**
freight agent (except airline) **6434**
freight attendant – air transport **7437**
freight car checker – railway **7622**
freight car cleaner **6662**
freight car distributor – railway yard **7431**
freight car inspector **2262**
freight car loader **7452**
freight car unloader **7452**
freight car weigher **7622**
freight checker **1471**
freight company manager **0713**
freight division manager **0713**
freight elevator operator **6683**
freight forwarder **0713**
freight forwarding clerk **1441**
freight forwarding logistician **1215**
freight forwarding manager **0713**
freight forwarding services sales representative **6411**
freight forwarding supervisor **1215**
freight forwarding technician **1215**
freight forwarding unit supervisor **1215**
freight handler (except air transport) **7452**
freight handling foreman/woman **7217**
freight loader (except air transport) **7452**
freight loading foreman/woman **7217**
freight receiver **1471**
freight receiver clerk **1471**
freight receiving clerk **1471**
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freight services sales representative **6411**
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freight supervisor **1215**
freight terminal foreman/woman **7217**
freight traffic agent **6411**

freight traffic co-ordinator **1215**
freight traffic manager **0713**
freight traffic scheduling supervisor **1215**
freight traffic supervisor **1215**
freight train brakeman/woman **7362**
freight train conductor **7362**
freight train engineer **7361**
freight truck driver **7411**
freight unloader (except air transport) **7452**
freight-rate clerk **1431**
freight-rate revision clerk **1431**
French as a second language teacher – elementary school **4142**
French as a second language teacher – secondary school **4141**
French as a second language teacher (except elementary, high school or university) **4131**
French as a second language teacher, high school **4141**
French editor **5122**
French immersion teacher – elementary school **4142**
French pastry baker – retail **6252**
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glass worker – glass products manufacturing **9413**
glass worker apprentice **7292**
glass worker helper – construction **7611**
glass-annealing furnace tender **9413**
glass-blowing lathe operator **9413**
glass-blowing machine operator **9413**
glass-blowing machine setter **9413**
glass-coating line operator **9413**
glass-decorating machine operator **9413**
glass-drawing machine operator **9413**
glass-edging machine feeder **9413**
glassfiber mat roller-packer **9619**
glass-fibre-bonding machine tender **9442**
glass-finishing machine operator **9413**
glass-forming machine operator **9413**
glass-forming machine operator helper **9611**
glass-forming machine setter **9413**
glass-forming machine set-up person **9413**
glass-grinders and glass-polishers foreman/woman **9211**
glass-grinding machine feeder **9413**
glass-pressing and glass-blowing machine operator **9413**
glass-pressing machine operator **9413**
glass-silvering machine operator **9413**
glass-stopper grinder **9413**
glass-tempering furnace operator **9413**
glass-tube-expander operator **9413**
glassware grinder **9413**
glassware-banding machine tender **9413**
glassware-decorating machine operator **9413**
glassworker, hand **5244**
glaze maker – clay products **9414**
glazed products kilnman/woman – clay products **9414**
glazier **7292**
glazier and metal mechanic **7292**
glazier and metal mechanic apprentice **7292**
glazier apprentice **7292**
glazier helper **7611**
glazier supervisor **7219**
glazier, building **7292**
glazier, curtain walls **7292**
glazier, exterior walls **7292**
glazier, plate glass **7292**
glazier, stained glass **7292**
glazier, structural glass **7292**
glazier, window sash and frame **7292**
glazier-contractor **7219**
glaziers foreman/woman **7219**
glazing contractor **7219**
glazing supervisor **7219**
gliding instructor **4131**
glost kiln operator – clay products **9414**
glove and mitten examiner **9454**
glove cutter **9452**
glove designer **5243**
glove knitter **9442**
glove liner **9619**
glove maker, rubber **9423**
glove makers foreman/woman **9225**
glove pairer **9619**
glove printer **9471**
glove stitcher **9451**
glove turner, hand **9619**
glucose transferrer – food and beverage processing **9617**
glue clamp operator – wood products manufacturing **9493**
glue clamp operator, chain carrier – wood products manufacturing **9493**
glue jointer operator – woodworking **9513**
glue machine operator – woodworking **9513**
glue machine tender – woodworking **9513**
glue-bonding machine operator – woodworking **9513**
glue-bonding machine tender – woodworking **9513**
gluer – furniture manufacturing **9492**
gluer – other products manufacturing **9498**
gluer – rubber products manufacturing **9423**
gluer, assembly line – wood products manufacturing **9493**
gluer, cardboard boxes **9435**
gluer, headbands and liners – printing **9473**
gluer, wood products **9493**
gluing and folding machine operator – printing **9473**
gluing foreman/woman – furniture and fixtures manufacturing **9224**
gluing machine operator – rubber products manufacturing **9423**
gluten settler – food and beverage processing **9617**
glycerine refiner **9232**
glycerine refinery operator **9232**

goal judge **5253**
goat breeder **8251**
go-cart assembler **9486**
go-cart repairer **7335**
go-cart ride attendant **6671**
go-cart track attendant **6671**
gold assayer **2212**
gold leaf stamper – printing **9473**
gold prospector **2212**
gold recoverer **9411**
goldsmith **5244**
golf ball assembler **9423**
golf ball maker **9423**
golf ball vulcanizer **9423**
golf club adjuster **9498**
golf club assembler **9498**
golf club facer, wood **9493**
golf club head adjuster **7445**
golf club head finisher, wood **9493**
golf club inspector **9498**
golf club repairer **7445**
golf club weigher **9619**
golf course architect **2152**
golf course labourer **8612**
golf course ranger **6671**
golf course starter **6671**
golf course superintendent **2225**
golf course worker **8612**
golf instructor **5254**
golf player **5251**
golf range attendant **6671**
golfer **5251**
gondola operator **6671**
goods and services tax (GST) collection officer **1228**
goods and services tax (GST) manager **0412**
gospel worker **4217**
gouger, lacrosse sticks – woodworking **9513**
gourmet cooking instructor – non-vocational **4216**
government administrator – education **0413**
government agency commissioner **0012**
government agency president **0012**
government agency senior administrator **0012**
government agricultural service district representative **2123**
government leader **0011**
government official **4168**
government supply officer **1225**
governor general **0011**
GP (general practitioner) **3112**
gradall operator **7421**
grade school teacher **4142**
grade tamper – construction **7611**
grader – food and beverage processing **9465**
grader – pulp and paper **9433**
grader – textiles **9444**
grader – wood processing **9436**
grader fitter **7316**
grader operator **7421**
grader tallyman/woman – wood processing **9436**
grader, abrasive and clay products **9415**
grader, asbestos **9415**
grader, board – wood processing **9436**
grader, bricks **9415**
grader, butter **9465**
grader, cheeses **9465**
grader, cigarettes **9465**
grader, cigars **9465**
grader, clay products **9415**
grader, clay tiles – mineral products processing **9415**
grader, cream **9465**
grader, fabric **9444**
grader, fish **9465**
grader, hosiery **9444**
grader, lamb **9465**
grader, lumber **9436**
grader, meat **9465**
grader, milk **9465**
grader, particle boards – wood processing **9436**
grader, plywood – wood processing **9436**
grader, stock – furniture manufacturing **9492**
grader, stonework **9415**
grader, tobacco **9465**
grader, veneer – wood processing **9436**
grader, veneer and plywood – wood processing **9436**
grader, wood processing **9436**
grader, wooden sashes and doors **9493**
graderman/woman – pulp and paper **9433**
grader-operator, ripsaw – woodworking **9513**
grading equipment mechanic **7312**
grading equipment operators foreman/woman **7217**
graduate assistant – postsecondary **4122**
graduate nurse **3152**
graduate nurse – doctor's office **3152**
graduate nurse – occupational health **3152**
graduate nurse – physician's office **3152**
graduate nursing assistant **3233**
graduate private duty nurse **3152**
graduate religious nurse **3152**
graduate studies dean **0312**

grafter – orchard **8431**
grain and oilseed farmer **8251**
grain and oilseed grower **8251**
grain and oilseed producer **8251**
grain broker **1113**
grain broker – commodity trading **1113**
grain broker – wholesale **6411**
grain buyer **1225**
grain cleaner helper **9617**
grain cleaner-dryer – food and beverage processing **9461**
grain commissioner **0012**
grain conveyor operator **7452**
grain cooker – food and beverage processing **9461**
grain crop foreman/woman **8253**
grain custom harvester **8252**
grain dealer **6411**
grain elevator agent **6234**
grain elevator district manager **6234**
grain elevator maintenance mechanic **7311**
grain elevator manager **6234**
grain elevator operator **6234**
grain farm labourer **8431**
grain farm manager **8251**
grain farm operator **8251**
grain farm worker **8431**
grain farmer **8251**
grain grower **8251**
grain handler **7452**
grain inspection supervisor **2222**
grain inspector **2222**
grain market analysis chief **0412**
grain market analysis manager **0412**
grain meal processor – food and beverage processing **9461**
grain merchandiser **6411**
grain miller **9461**
grain mixer – food and beverage processing **9461**
grain producer **8251**
grain quotations board marker **1411**
grain roaster **9461**
grain sample miller **9461**
grain sampler – food and beverage processing **9465**
grain terminal elevator manager **0721**
grain thresher **8431**
grain trader **1113**
grain trading manager **0121**
grain weigher **7452**
grain-cleaning machine operator – food and beverage processing **9461**
grainer – furniture finishing and refinishing **9494**
grainer, wood – furniture finishing and refinishing **9494**
graining machine operator – tannery **9453**
graining press operator – chemical processing **9421**
grain-milling team supervisor **9213**
grain-processing machine operator **9461**
granite carver **9414**
granite cutter **9414**
granite polisher, hand **9414**
granite polisher, machine **9414**
granite products polisher **9414**
granite setter **7283**
granthi **4154**
granular aluminum caster – foundry **9412**
granulating machine tender – tobacco processing **9464**
granulator – tobacco processing **9464**
granulator machine operator – chemical processing **9421**
granulator operator – phosphate **9411**
granulator tender – food and beverage processing **9461**
grape grower **8251**
graphic artist **5241**
graphic arts assembler **5223**
graphic arts camera operator **9472**
graphic arts copy stylist **5223**
graphic arts equipment sales representative **6221**
graphic arts renderer **5223**
graphic arts room supervisor **5241**
graphic arts sales representative **6411**
graphic arts teacher – college **4131**
graphic arts technician **5223**
graphic design and illustration animator **5241**
graphic design instructor – college or vocational institute **4131**
graphic design sales representative **6411**
graphic designer **5241**
graphic designer – multimedia **5241**
graphic designer – multimedia, interactive or new media **5241**
graphic designer and layout artist **5241**
graphic designer, web **5241**
graphics technician **5223**
graphoanalyst **4169**
graphologist **4169**
grapple operator – logging **8241**
grapple skidder operator **8421**
grapple yarder hook tender **8211**
grapple yarder operator – logging **8241**

grass cutter **8612**
grated cheese maker **9461**
grave digger **8612**
grave marker cutter – stone products **9414**
gravel grader – mineral products processing **9415**
gravel hauler **7411**
gravel roofer **7291**
gravel screener **9611**
gravel truck driver **7411**
gravity data technician **2212**
gravity prospecting observer helper **8615**
gravure press operator **7381**
gravure press operators foreman/woman **7218**
gravure pressman/woman **7381**
gravure printer – pre-press **9472**
gravure printer – printing **7381**
gravure printers foreman/woman **7218**
gravure printing press operator **7381**
gravure proof press operator – printing **7381**
gravure proof puller – printing **7381**
gravure proof wallpaper puller **7381**
grease maker **9232**
greaser **7443**
greaser, engine room **7434**
greaser, engine room – marine **7434**
greaser, heavy truck **7443**
greaser, journal boxes – railway yard **7431**
greaser, railway cars **7431**
Greek teacher – secondary school **4141**
green lumber grader **9436**
green sorter – wood processing **9614**
green tire inspector **9423**
green tire lubricator **9423**
green tire repairer **9423**
green wood chainman/woman – wood processing **9614**
greenhouse farmer **8254**
greenhouse foreman/woman **8256**
greenhouse installers foreman/woman **7219**
greenhouse manager **8254**
greenhouse operator **8254**
greenhouse supervisor **8256**
greenhouse worker **8432**
greenhouse worker crew chief **8256**
greens superintendent **2225**
greens worker **8612**
greensaw offbearer – wood processing **9614**
greenskeeper **2225**
greenskeeper helper **8612**
greenware driller – clay products **9414**
greenware finisher – clay products **9414**
greenware turner operator – clay products **9414**
greenware turner, machine – clay products **9414**
greeter, sales **6421**
greeting cards sales clerk **6421**
greige-cloth examiner **9444**
grid caster – foundry **9412**
grid gauger – electronic equipment manufacturing **9483**
grid inspector – electrical equipment manufacturing **9484**
grid inspector – electronic equipment manufacturing **9483**
grid machine job setter **9516**
grid operator – electronic equipment manufacturing **9483**
grid-caster operator – foundry **9412**
grief counsellor **4153**
grill cook **6242**
grinder – concrete, clay and stone products **9414**
grinder – metal products manufacturing **9612**
grinder and classifier tender **9411**
grinder and sharpener – metal products manufacturing **9612**
grinder feeder – pulp and paper **9614**
grinder loader – pulp and paper **9432**
grinder operator – plastic manufacturing **9422**
grinder operator – pulp and paper **9432**
grinder operator – rubber products manufacturing **9423**
grinder operator, rails – railway **7432**
grinder set-up operator – metal machining **9511**
grinder tender – chemical processing **9421**
grinder tender, stones **9414**
grinder, cylinders – metal machining **9511**
grinder, metal saw teeth **9511**
grinder, ophthalmic lenses **3414**
grinder, plates – metal products manufacturing **9612**
grinder, pottery and porcelain **9414**
grinder, precision optical lenses – non-prescription **9517**
grinder, printing rollers **9511**
grinder, rails – railway **7432**
grinder, rubber abrasive wheels **9414**
grinder, tobacco leaf **9464**
grinder, watch crystal edges **9517**
grinder-chipper – metal products manufacturing **9612**
grinder-deburrer – metal products manufacturing **9612**
grinder-dresser – metal products manufacturing **9612**
grinderman/woman – pulp and paper **9432**

grinder-trimmer – metal products manufacturing **9612**
grinding and flotation tender **9411**
grinding and packing foreman/woman – chemical processing **9212**
grinding machine operator, hardboard **9434**
grinding stone sharpener **9414**
grinding wheel dresser **9414**
grip **5227**
grist mill operator – food and beverage processing **9461**
grizzly worker – underground mining **8614**
grocer **0621**
groceries deliverer **7414**
grocery clerk **6622**
grocery clerk supervisor **6211**
grocery packer **6622**
grocery store baker **6252**
grocery store butcher **6251**
grocery store cashier **6611**
groceteria cashier **6611**
groom – farm **8431**
groom – horse race track **6483**
groomer, aircraft **7437**
groomer, pets **6483**
groove grinder – glass **9413**
groove-cutting machine operator **7421**
groover – woodworking **9513**
groover and turner – shoe manufacturing **9619**
groover operator – woodworking **9513**
groover operator, plywood panels – wood processing **9434**
grooving machine operator – heavy equipment **7421**
grooving machine operator – woodworking **9513**
grooving machine set-up operator – metal machining **9511**
ground crew foreman/woman – aircraft maintenance **7216**
ground hand – telecommunications **7612**
ground school instructor **4131**
ground transit inspector – public transit **7222**
ground transportation driver **7412**
ground worker – power lines **7612**
ground worker – telecommunications **7612**
ground worker, pile driving **7611**
grounds maintainer **8612**
grounds maintenance contractor **8255**
grounds maintenance manager **8255**
grounds maintenance worker **8612**
groundskeeper **8612**
groundskeeper supervisor **8256**
groundskeeping foreman/woman **8256**
groundskeeping supervisor **8256**
groundsman/woman **8612**
groundwater geologist **2113**
groundwater technologist **2212**
group accounting manager **0111**
group counsellor, employment services **4213**
group dance teacher **5134**
group dancer **5134**
group home counsellor **4153**
group home manager **0314**
group home operator **4212**
group home worker **4212**
group insurance clerk **1434**
group insurance representative **6231**
group leader, drafting **2253**
group leader, electrical mechanics **7333**
group leader, forging machine operator **9512**
group leader, large electrical appliance assembly **9484**
group leader, mechanical assemblers **9486**
group leader, small electrical appliance assembly **9484**
group life claims examiner – insurance **1233**
group sales representative, travel **6411**
group social worker **4152**
group travel sales representative **6411**
group underwriter – insurance **1234**
grout machine operator **7611**
grout pump operator **7611**
grouter **7611**
grower, evergreens **8254**
grower, flower **8254**
grower, ginseng **8251**
grower, hop **8251**
grower, hothouse flowers **8254**
grower, plants – nursery **8254**
grower, roses **8254**
grower, shrubs **8254**
grower, trees – nursery **8254**
growers' advisor **2123**
GST (goods and services tax) collection officer **1228**
GST (goods and services tax) manager **0412**
guard, armoured car **6651**
guard, correctional facility **6462**
guard, correctional institution **6462**
guard, security **6651**
guest home cleaner **6661**
guest service representative – hotel **6435**
guest services agent – hotel **6435**
guest services attendant, hotel **6672**

guest services manager **0632**
guest-house operator **0632**
guidance counsellor **4143**
guidance director **0314**
guidance service head **4143**
guidance services director **0314**
guide, establishment **6441**
guide, horse-drawn vehicle sightseeing tours **6441**
guide, hunting and fishing **6442**
guide, mountain climbing **6442**
guide, outdoor **6442**
guide, outfitting **6442**
guide, rafting **6442**
guide, sightseeing **6441**
guide, travel **6441**
guide, whitewater rafting **6442**
guide-operator **1215**
guillotine cutter – printing **9473**
guillotine operator – printing **9473**
guitar maker **5244**
guitar player **5133**
guitar repairer **7445**
gum cutter – rubber footwear **9423**
gumming machine tender – paper converting **9435**
gum-sheeting and scoring machine operator – food and beverage processing **9461**
gum-wrapping machine mechanic **7311**
gun assembler **9486**
gun assembler, television pictures tubes **9483**
gun perforator – oil field services **8232**
gun repairer **7383**
gun subassembler **9486**
gunite mixer – construction **7611**
guniter – construction **7611**
gunner – military **6464**
gunsmith **7383**
gunstock checkerer **9513**
gunstock fitter – woodworking **9513**
gunstock shaper – woodworking **9513**
gymnast **5251**
gymnastics coach **5252**
gymnastics instructor **5254**
gymnastics teacher **5254**
gynecologist **3111**
gyproc applicator **7284**
gypsum calciner **9411**
gypsum lather **7284**
gypsum plasterboard applicator **7284**
gypsum plasterboard maker **9414**
gyroscope repairer **7445**
gyroscope repairman/woman **7445**

H

habitat management technician **2221**
HACCP (hazard analysis critical control point) co-ordinator – food processing **9213**
hair colour technician **6271**
hair dryer assembler **9484**
hair dyer **6271**
hair removal specialist **6482**
hair replacement consultant **6482**
hair replacement technician **6482**
hair weaver **6482**
hair-care specialist **6271**
hairdresser **6271**
hairdresser apprentice **6271**
hairdressing instructor – college or vocational institute **4131**
hairdressing salon manager **0651**
hairdressing teacher **4131**
hair-rooting machine operator – toy manufacturing **9517**
hairspring maker, clocks **9498**
hairspring truer **9498**
hairstyling salon manager **0651**
hairstyling specialist **6271**
hairstylist **6271**
hairstylist apprentice **6271**
hairstylist, dolls **9517**
halftone camera operator – printing **9472**
halfway house manager **0314**
halfway house supervisor **4212**
halfway house worker **4212**
hall cleaner **6661**
hall principal – secondary school **0313**
ham curer **9461**
ham curing foreman/woman **9213**
ham cutter **9462**
ham grader **9465**
ham presser **9617**
ham sawyer – meat packing plant **9462**
hammer driver – forging **9512**
hammer mill tender – concrete, clay and stone products **9414**
hammer mill tender – food and beverage processing **9461**
hammer operator – metal forging **9512**
hammer operator, pile driving **7421**
hammer thrower **5251**
hammersmith **7266**
hammersmith, jewellery **7344**
hand arc welder **7265**
hand baggage inspector **6651**

hand bagger – material handling **7452**
hand bag-maker **9498**
hand beadworker **5244**
hand blocker, hats **9498**
hand bonder – rubber footwear manufacturing **9423**
hand bookbinder **5244**
hand brick moulder – clay products **9414**
hand buffer – metal products manufacturing **9612**
hand bundler **7452**
hand bundler – wood processing **9614**
hand candle maker **5244**
hand carver, stones **5244**
hand carver, woodenware **5244**
hand case maker **5244**
hand cementer – rubber and plastic products manufacturing **9615**
hand clay products moulder **9414**
hand coil taper – industrial electrical equipment **9485**
hand colour-card maker **9498**
hand compositors supervisor **7218**
hand crocheter **5244**
hand cutter – clothing manufacturing **9452**
hand cutter – fabric, fur and leather products manufacturing **9452**
hand cutter, cloth **9619**
hand cutter, peat moss **7612**
hand dollmaker **5244**
hand electric arc welder **7265**
hand embroiderer **5244**
hand enameller **5244**
hand engraver **5244**
hand filament mounter **9484**
hand filer – metal products manufacturing **9612**
hand filer, tools – metal machining **9511**
hand finisher – laundry and dry cleaning **6682**
hand finisher, glass edges **9413**
hand fish net maker **9498**
hand former, hat brims **9498**
hand fur cleaner **6681**
hand glass edge finisher **9413**
hand glassworker **5244**
hand hat blocker **9498**
hand hat brim former **9498**
hand hose maker – rubber products manufacturing **9423**
hand icer – bakery **6252**
hand inserter – printing **9619**
hand ironer – laundry and dry cleaning **6682**
hand knitter **5244**
hand lacer – sporting goods manufacturing **9498**
hand laminator – furniture manufacturing **9492**
hand lapper – metal machining **9511**
hand lead caster – foundry **9412**
hand leather cutter – leather products manufacturing **9452**
hand leather worker **5244**
hand lens beveller – non-prescription **9517**
hand lens edger – non-prescription **9517**
hand luggage inspector **6651**
hand marble polisher **9414**
hand metalworker **5244**
hand moulder – clay products **9414**
hand moulder, bricks – clay products **9414**
hand moulder, clay products **9414**
hand mouldmaker – foundry **9412**
hand mounter, filaments **9484**
hand needleworker **5244**
hand net-maker **9498**
hand packager **7452**
hand packer – food store **6622**
hand packer, sacks – material handling **7452**
hand painter – graphic arts **5223**
hand paper pad gluer **9619**
hand papermaker **5244**
hand peat moss cutter **7612**
hand pleater – garment manufacturing **9498**
hand polisher, granite **9414**
hand polisher, marble **9414**
hand polisher, stones **9414**
hand porcelain and earthenware presser – clay products **9414**
hand presser – clay products **9414**
hand presser – laundry and dry cleaning **6682**
hand presser, porcelain and earthenware – clay products **9414**
hand quilter **5244**
hand resistance welder **7265**
hand rubber footwear maker **9423**
hand rug maker **5244**
hand sacker – material handling **7452**
hand sample container maker **9498**
hand sand-core maker – foundry **9412**
hand sander – furniture manufacturing **9619**
hand screen printer – textile manufacturing **9443**
hand shellfish processor – fish processing **9463**
hand silk flower maker **5244**
hand skeiner – textile processing **9616**
hand spinner **5244**
hand sprayer – greenhouse **8432**
hand stitcher – binding **9473**
hand stone carver **5244**
hand stone polisher **9414**

hand stonecutter **9414**
hand tool repairman/woman **7445**
hand tools manufacturing foreman/woman **9227**
hand touch-up painter – production **9496**
hand trimmer – garment manufacturing **9619**
hand trimmer – shoe manufacturing **9619**
hand truck operator **7452**
hand washer – laundry and dry cleaning **6681**
hand weaver **5224**
hand woodworker **5244**
handbag designer **5243**
handbag framer **9619**
handbag maker, leather **9498**
handbag manufacturing foreman/woman **9225**
handball player **5251**
handbill passer – courier service **1463**
handbook writer **5121**
handle and vent machine tender **9517**
handle mounter **9619**
handler – wood treatment **9614**
handler, explosives **7452**
handler, fireworks **5227**
handler, fish-processing plant **9618**
handler, freight (except air transport) **7452**
handler, grain **7452**
handler, heavy materials **7452**
handler, light materials **7452**
handler, materials **7452**
handler, materials – manufacturing and warehousing **7452**
handler, recycled paper **7452**
handliner fisherman/woman **8262**
handwriting analyst **4169**
handwriting expert **4169**
handwriting expert, forensic **2211**
hang-up blaster – underground mining **8231**
Hansard reporter **1244**
harbour master **0721**
harbour pilot **2273**
harbour police chief **0641**
harbour police officer **6261**
harbour police sergeant **6261**
harbour policeman/woman **6261**
hard hat assembler **9498**
hardboard press operator – wood processing **9434**
hardboard spray-coating machine tender **9496**
hardboard-coating line checker **9498**
hardboard-forming line operator **9434**
hardboard-grinding machine operator **9434**
hardboard-oiling machine tender **9434**
hardener – optical instruments manufacturing **9619**
hardener – primary metal processing **9411**
hard-hat diver **7382**
hardness tester – primary metal processing **9415**
hardrock miner **8231**
hardrock miner apprentice **8231**
hardware assembler **9498**
hardware assembler – furniture manufacturing **9492**
hardware buyer **6233**
hardware circuit board designer **2147**
hardware design engineer **2147**
hardware development engineer **2147**
hardware engineer **2147**
hardware installation technician **2282**
hardware installer – furniture manufacturing **9492**
hardware installer, metal – furniture manufacturing **9492**
hardware mounter – furniture manufacturing **9492**
hardware purchasing director **0113**
hardware purchasing manager **0113**
hardware specialist, telecommunications **2147**
hardware store clerk – retail **6421**
hardware store manager **0621**
hardware technical architect **2147**
hardware technical support analyst **2282**
hardware, tool and knife inspector **9498**
hardwood faller and bucker **8421**
hardwood floor covering installer **7295**
hardwood floor layer **7295**
harness and cable fabricator – electronic equipment manufacturing **9483**
harness cleaner – textile processing **9616**
harness maker, leather **9452**
harness preparer – textiles **9442**
harness race driver **5251**
harness racing driver **5251**
harness racing starter **5253**
harness rigger, parachutes **9619**
harness tier – textiles **9442**
harpist **5133**
harpoon fisherman/woman **8262**
harpsichord builder **5244**
harvest hand **8611**
harvest worker **8611**
harvester machine operator **8431**
hat and cap eyelet machine operator **9517**
hat and cap makers foreman/woman **9225**
hat and cap parts bundler **9619**
hat and cap perforator **9619**
hat block maker – woodworking **9513**
hat blocker, hand **9498**

hat brim cutter – fabric products manufacturing **9498**
hat brim former, hand **9498**
hat brusher **9619**
hat check attendant **6683**
hat cleaner **6681**
hat cone former – hat manufacturing **9517**
hat cone shrinker **9498**
hat crown and brim former – hat manufacturing **9517**
hat decoration maker **9498**
hat decorator – fabric products manufacturing **9498**
hat designer **5243**
hat finisher **9498**
hat finisher, felt **9498**
hat foundation maker – fabric products manufacturing **9498**
hat fur sorter **9454**
hat inspector **9454**
hat liner **9619**
hat ornament maker **9498**
hat presser, machine – hat manufacturing **9517**
hat sewer, factory **9451**
hat sizer **9619**
hat sorter **9619**
hat sweatband flanger **9619**
hat treater **9619**
hat trimming department foreman/woman **9225**
hat-brim-flexing machine tender – hat manufacturing **9517**
hatchery foreman/woman **8253**
hatchery helper **8613**
hatchery manager **8251**
hatchery operator **8251**
hatchery worker **8431**
hatchery worker – aquaculture **8613**
hatchery workers foreman/woman **8253**
hat-greasing machine tender – hat manufacturing **9517**
hatmaking machine operator **9517**
hat-pouncing machine tender – hat manufacturing **9517**
hatter, dry cleaning **6681**
haulage truck driver – underground mining **8411**
haulageman/woman – underground mining **8411**
hauler, coal – underground mining **8411**
hauler, gravel **7411**
hay baler operator – agriculture **8431**
hazard analysis critical control point (HACCP) co-ordinator **9213**
hazardous waste inspector **2263**
hazardous waste inspector – environmental health **2263**
hazardous waste management technologist **2263**
hazzan **4217**
head administrator, leisure **0513**
head administrator, recreation **0513**
head air traffic controller **2272**
head archivist **0511**
head baggage porter **6216**
head baker **6252**
head baker – retail **6252**
head barmaid **6452**
head barman/barwoman **6452**
head bartender **6452**
head boner – meat packing plant **9462**
head brakeman/woman **7362**
head butcher – wholesale **6251**
head butcher – retail **6251**
head butcher – retail or wholesale **6251**
head caretaker **6215**
head cashier **6211**
head charger **9231**
head chef **6241**
head cleaner **6215**
head cleaning man/woman **6215**
head coach **5252**
head correctional officer **6462**
head custodian **6215**
head custodian – cleaning services **6215**
head dispatcher **1215**
head end technician – cable television **7247**
head grip **5226**
head janitor **6215**
head librarian **0511**
head librarian, technician services **0511**
head maker, paintbrushes **9517**
head matron – correctional service **6462**
head miller, feed-and-flour mill **9213**
head mixer – bakery **9213**
head nurse **3151**
head nurse, operating room **3151**
head of cataloguing **0511**
head of wardrobe **5226**
head office underwriter – insurance **1234**
head operator, loading – underground mining **8411**
head preparator – museums and art galleries **5212**
head refrigerating engineer **9212**
head rotisseur **6241**
head sawyer – sawmill **9431**
head shipper **1215**
head teller – financial services **1433**

head train dispatcher **2275**
head, accounting section **1212**
head, billing unit **1212**
head, building services **0721**
head, facility maintenance **0721**
head, home economics department – secondary school **4141**
head, hotel clerks **6216**
head, management services division – business services **0123**
head, organizational services **0123**
head, park maintenance **8256**
head, property section **1224**
head, school guidance department **4143**
head, science department – secondary school **4141**
headband and liner gluer – printing **9473**
header machine operator – metal **9516**
header operator, wood cooperage **9513**
header, wooden barrel **9513**
heading machine operator, cooperage – woodworking **9513**
heading machine tender **9517**
headings sawyer, cooperage **9513**
headlight adjuster – motor vehicle manufacturing **9482**
headline writer **5123**
headman/woman – underground mining **8411**
headmaster, private school **0313**
head-office repair supervisor **7212**
headquarters chief inspector – police **0641**
headquarters duty officer – police **6261**
headquarters police inspector **0641**
headrig operator – sawmill **9431**
head-saw operator – sawmill **9431**
headwelder, electric welding pipe mill **7214**
healer, faith **4217**
health aide **3414**
health and dental claims examiner – insurance **1233**
health and safety co-ordinator **0112**
health and safety inspector **2263**
health and safety instructor **4131**
health and safety officer **2263**
health and safety technician **2263**
health and safety technologist **2263**
health and social services institution accreditation officer **4165**
health and social services liaison officer **4165**
health and welfare manager – government services **0411**
health care administration officer (management) – military **0311**
health care aide **3413**
health care assistant **3413**
health care association program officer **4165**
health care consultant **4165**
health care institution pharmacist **3131**
health care insurance plan director – government services **0411**
health care insurance refund claims director – government services **0411**
health care planner **4165**
health care planning consultant **4165**
health care planning officer **4165**
health care program administration officer – military **4165**
health care researcher **4165**
health club manager **0721**
health commissioner **0012**
health economist **4162**
health education director – government services **0411**
health education teacher – secondary school **4141**
health educator **0311**
health information and promotion chief – government services **0411**
health information and promotion director – government services **0411**
health librarian **5111**
health officers supervisor **2263**
health physicist **2111**
health policy development officer **4165**
health policy research analyst **4165**
health program information analyst **4165**
health programs assistant director – government services **0411**
health programs operations manager – government services **0411**
health promotion chief – government services **0411**
health promotion program officer **4165**
health records administrator **0114**
health records classifier **1413**
health records technician **1413**
health research officer **4165**
health services consultant **4165**
health services director – government services **0411**
health services program consultant **4165**
health services research officer **4165**
health services researcher **4165**
health spa manager **0651**

health standards inspector **2263**
health strategies manager – government services **0411**
health studio manager **0651**
health technology teacher – college **4131**
hearing aid assistant **3235**
hearing aid consultant **3235**
hearing aid dealer **3235**
hearing aid dealer and consultant **3235**
hearing aid inspector – electronic equipment manufacturing **9483**
hearing aid practitioner **3235**
hearing aid repairer **2242**
hearing aid sales consultant – retail **6421**
hearing aid salesperson- retail **6421**
hearing aid specialist **3235**
hearing aid technician **3235**
hearing assessment technician **3235**
hearing disorder technician **3235**
hearse driver **7413**
heart specialist **3111**
heat and frost insulator **7293**
heat curer – textile manufacturing **9443**
heat exchanger tender, Votator – food and beverage processing **9461**
heat seal equipment operator – electrical equipment manufacturing **9487**
heat sensor assembler **9498**
heat shield maker, aircraft **9498**
heat treat technician **2212**
heat treater helper **9612**
heat treating inspector – metal processing **9415**
heater – primary metal processing **9231**
heater helper – primary metal processing **9611**
heater operator – metal forging **9512**
heater, coke oven **9411**
heater, glass **9413**
heater-planer operator **7421**
heating and air conditioning contractor **7216**
heating and air conditioning mechanic **7313**
heating and air conditioning mechanic helper **7612**
heating and air conditioning systems contractor **7216**
heating and cooling mechanic **7313**
heating and cooling mechanic helper **7612**
heating and ventilation equipment tender **7351**
heating and ventilation systems draftsperson **2253**
heating designer **2232**
heating element coil former – electrical equipment manufacturing **9487**
heating element coil-former operator **9487**
heating mechanic **7331**
heating service mechanic **7331**
heating specialist engineer **2132**
heating stationary engineer **7351**
heating system installation and repair contractor **7216**
heating system mechanic **7331**
heating systems contractor **7216**
heating systems draftsperson **2253**
heating systems installer **7331**
heating systems mechanics foreman/woman **7216**
heating systems servicer **7331**
heating systems technician **7331**
heating technician **7331**
heating, ventilating and air conditioning (HVAC) engineer **2132**
heating, ventilating and air conditioning (HVAC) mechanics foreman/woman **7216**
heating, ventilating and air conditioning (HVAC) technologist **2232**
heating, ventilation and air conditioning (HVAC) mechanic **7313**
heat-seal press pad assembler – furniture assembly **9619**
heat-sealing machine tender – plastic manufacturing **9422**
heat-treat furnace operator – primary metal processing **9411**
heavy agricultural machinery assembly foreman/woman **7216**
heavy chucking lathe operator – metal machining **9511**
heavy construction crew foreman/woman **7217**
heavy construction equipment assembly foreman/woman **7216**
heavy construction labourers foreman/woman **7217**
heavy construction-equipment operator **7421**
heavy diesel engine mechanic **7312**
heavy duty equipment technician **7312**
heavy equipment assembly foreman/woman **7216**
heavy equipment combination mechanic **7312**
heavy equipment field mechanic **7312**
heavy equipment fitter **7316**
heavy equipment greaser **7443**
heavy equipment inspector-repairer **7312**
heavy equipment mechanic **7312**
heavy equipment mechanic – diesel engine **7312**
heavy equipment mechanic helper **7612**
heavy equipment mechanics supervisor **7216**
heavy equipment operator **7421**
heavy equipment operator apprentice **7421**

heavy equipment operators instructor **4131**
heavy equipment operators supervisor **7217**
heavy equipment sales representative **6221**
heavy equipment salesperson **6221**
heavy equipment servicer **7443**
heavy farm equipment assembly foreman/woman **7216**
heavy forger **9512**
heavy machinery assembly foreman/woman **7216**
heavy machinery fitter **7316**
heavy materials handler **7452**
heavy media separation tender – mineral and metal processing **9411**
heavy mobile equipment repairer **7312**
heavy mobile equipment repairman/woman **7312**
heavy mobile logging equipment mechanic **7312**
heavy mobile mining equipment mechanic **7312**
heavy truck driver **7411**
heavy truck sales representative **6221**
heavy truck salesperson **6221**
heavy water chemical process operator **9232**
heavy water plant control technician **2243**
heavy water plant mechanical maintainer **7311**
heavy water steam plant operator **7351**
heavy-duty capacitor assembler **9484**
heavy-duty cleaner **6663**
heavy-duty coil former – industrial electrical equipment **9485**
heavy-duty electrical battery charger tester **9487**
heavy-duty equipment mechanic **7312**
heavy-duty equipment mechanic apprentice **7312**
heavy-duty equipment operator **7421**
heavy-duty equipment operator apprentice **7421**
heavy-duty equipment operators foreman/woman **7217**
heavy-duty equipment servicer **7443**
heavy-duty equipment technician apprentice **7312**
heavy-duty press set-up operator – metal fabrication **9514**
heavy-duty resistor assembler **9484**
heavy-duty transformer assembler **9485**
heavy-duty transformer coil winder **9485**
heddle examiner **9619**
heddles tier, jacquard loom **9442**
heel attacher **9517**
heel breaster **9517**
heel compressor tender – shoe manufacturing **9619**
heel cutter – rubber footwear **9423**
heel finisher, wood – footwear manufacturing **9498**
heel maker **9517**
heel maker – rubber footwear **9423**
heel reducer – shoe manufacturing **9619**
heel scorer – shoe manufacturing **9619**
heel seat fitter **9517**
heel shaper – shoe manufacturing **9619**
heel-trimming machine operator – footwear manufacturing **9517**
heliarc welder **7265**
helicopter assembly foreman/woman **9226**
helicopter assembly supervisor **9226**
helicopter flight instructor **2271**
helicopter inspector, mechanical systems **7315**
helicopter maintenance foreman/woman – mechanical systems **7216**
helicopter mechanic **7315**
helicopter pilot **2271**
helminthologist **2121**
helmsman – sports **5251**
helmsman/woman – water transport **7433**
help centre supervisor – social services **4212**
help desk agent, technical **2282**
help desk analyst – systems **2282**
help desk supervisor, computer **2282**
help desk technical agent **2282**
help desk technician **2282**
help file developer **5121**
helper – chemical processing **9613**
helper – primary metal and mineral products processing **9611**
helper – printing **9619**
helper – textiles **9616**
helper, air track drill operator **7611**
helper, alumina clarifier **9611**
helper, alumina recovery **9611**
helper, annealer – primary metal processing **9611**
helper, asphalt roofer **7611**
helper, automotive electrician **7612**
helper, automotive mechanic **7612**
helper, awning installer **7611**
helper, ball mill – mineral products processing **9611**
helper, bar **6641**
helper, belt builder – rubber products manufacturing **9615**
helper, bias machine operator – rubber products manufacturing **9615**
helper, billet mill – primary metal processing **9611**
helper, billet rolling mill – primary metal processing **9611**
helper, billets – primary metal processing **9611**
helper, blacksmith **9612**

helper, blast furnace **9611**
helper, blaster – underground mining **8411**
helper, blood donor clinic **3414**
helper, boilermaker **9612**
helper, borer – underground raise mining **8411**
helper, bricklayer **7611**
helper, brickmason **7611**
helper, building painter **7611**
helper, cabinetmaker **7611**
helper, cable installation and repair – telecommunications **7612**
helper, cable splicer **7612**
helper, carman/woman **7612**
helper, carpenter **7611**
helper, carpet layer **7611**
helper, carpet mechanic **7611**
helper, casting **9611**
helper, casting machine **9611**
helper, casting wheel operator **9611**
helper, cement finisher **7611**
helper, charger – primary metal processing **9611**
helper, churn drill operator – water well **7611**
helper, classifier – primary metal and metal products processing **9611**
helper, coke oven heater **9611**
helper, commercial air conditioning mechanic **7612**
helper, concrete finisher **7611**
helper, concrete former **7611**
helper, concrete mixer operator **7611**
helper, concrete paver operator **7611**
helper, construction **7611**
helper, construction electrician **7611**
helper, construction trades **7611**
helper, Cottrell precipitator – primary metal processing **9611**
helper, crushing operations – mineral products processing **9611**
helper, cupola furnace **9611**
helper, day care **4214**
helper, delivery truck **7622**
helper, diamond driller – underground mining **8411**
helper, diver **7612**
helper, dragline operator – crane operation **7611**
helper, drawer – primary metal processing **9611**
helper, drawer-in – textiles **9442**
helper, drill carriage operator – underground mining **8411**
helper, driller – underground mining **8411**
helper, drop hammer – metal products manufacturing **9612**
helper, dry cleaner **6681**
helper, drywall and acoustical board installer **7611**
helper, electric motor testing **9619**
helper, elevator mechanic **7612**
helper, engine fitter **7612**
helper, etcher – printing **9619**
helper, extruder – primary metal processing **9611**
helper, extruding machine – rubber and plastic products manufacturing **9615**
helper, extrusion – primary metal processing **9611**
helper, factory **9619**
helper, fibreglass oven charger **9611**
helper, fitter – construction **7611**
helper, fitter – metal products manufacturing **9612**
helper, flame cutter – metal products manufacturing **9612**
helper, floor coverer **7611**
helper, floor sander and finisher **7611**
helper, floorcovering installer **7611**
helper, floorcovering mechanic **7611**
helper, flotation cell – primary metal and mineral products processing **9611**
helper, forge **9612**
helper, forger **9612**
helper, foundry – primary metal processing **9611**
helper, furnace repairer **7612**
helper, galvanizer **9612**
helper, gardener **8612**
helper, gardening **8612**
helper, glass setter **7611**
helper, glass worker – construction **7611**
helper, glass-forming machine operator **9611**
helper, glazier **7611**
helper, greenskeeper **8612**
helper, heat treater **9612**
helper, heating and cooling mechanic **7612**
helper, highway concrete mixer operator **7611**
helper, industrial mechanic **7612**
helper, industrial sheet metal worker **9612**
helper, insulation hoseman **7611**
helper, insulator **7611**
helper, interior and exterior wall erector **7611**
helper, interior wall finisher **7611**
helper, jigger operator – mineral products processing **9611**
helper, jumbo drill operator – underground mining **8411**
helper, jumbo operator – underground mining **8411**

helper, kiln operator – mineral products manufacturing **9611**
helper, landscape gardener **8612**
helper, landscape gardening **8612**
helper, laundry **6681**
helper, lightning rod erector **7611**
helper, lime kiln – mineral products processing **9611**
helper, lime kiln – pulp and paper **9614**
helper, lime kiln operator – mineral products processing **9611**
helper, loom drawer-in **9442**
helper, loom threader **9442**
helper, machine shop – metal products manufacturing **9612**
helper, marble setter **7611**
helper, mason **7611**
helper, mechanic **7612**
helper, medical laboratory **3212**
helper, melter – primary metal and mineral products processing **9611**
helper, metal polisher **9612**
helper, metal pourer – primary metal processing **9611**
helper, metal reclaimer – primary metal processing **9611**
helper, metal roofer – construction **7611**
helper, metal salvager – primary metal processing **9611**
helper, metal trim erector **7611**
helper, metal-fabricating shop **9612**
helper, metalworking machine **9612**
helper, millwright **7612**
helper, miner – underground mining **8614**
helper, mole operator – construction **7611**
helper, molten metal mixer – primary metal processing **9611**
helper, motor vehicle body repairer **7612**
helper, motor vehicle mechanic **7612**
helper, nursery school **4214**
helper, occupational therapy **3414**
helper, oil burner installer **7611**
helper, oil burner mechanic **7612**
helper, oil burner technician **7612**
helper, oil well cementer **8615**
helper, ornamental iron erector **7611**
helper, ornamental metal worker **7611**
helper, painter – construction **7611**
helper, painter and decorator **7611**
helper, paperhanger – construction **7611**
helper, pavement line painter **7611**
helper, perforator loader – oil field services **8615**
helper, physiotherapy **3414**
helper, pile driver operator – crane operation **7611**
helper, pile-driving lead placer **7611**
helper, pipeworker – underground mining **8614**
helper, plant doctor **8612**
helper, plasterer **7611**
helper, plastic products manufacturing machine operator **9615**
helper, plate fitter – construction **7611**
helper, plate worker – metal products manufacturing **9612**
helper, plater – metal fabrication **9612**
helper, plating room **9612**
helper, plumber **7611**
helper, portable diamond drill and saw operator **9619**
helper, power shovel operator **7611**
helper, powerhouse electrician **7612**
helper, precipitator – primary metal processing **9611**
helper, press – printing **9619**
helper, production – metal coating **9612**
helper, production – primary metal and mineral products processing **9611**
helper, production painter **9619**
helper, protective signalling installer – manufacturing **9619**
helper, punch press – metal products manufacturing **9612**
helper, raise miner **8411**
helper, reagent – primary metal processing **9611**
helper, refiner **9611**
helper, refinery – primary metal and mineral products processing **9611**
helper, rigger – construction **7611**
helper, rigger – shipbuilding **9612**
helper, road mixer operator **7611**
helper, rolling mill – primary metal processing **9611**
helper, roofer **7611**
helper, rotary driller – raise mining **8411**
helper, rubber products manufacturing **9615**
helper, rubber products manufacturing machine operator **9615**
helper, service rig – oil field services **8615**
helper, shear – metal fabrication **9612**
helper, sheet metal worker – construction **7611**
helper, sheeter – pulp and paper **9614**
helper, sherardizer **9612**
helper, shipfitter **9612**
helper, shipwright **9612**

helper, sider **7611**
helper, slime recovery plant – primary metal processing **9611**
helper, small-engine mechanic **7612**
helper, smelter **9611**
helper, spray truck **7611**
helper, steam fitter – construction **7611**
helper, steel erector **7611**
helper, steel form setter **7611**
helper, stock **7452**
helper, stock-keeper **7452**
helper, stretcher-leveller – primary metal processing **9611**
helper, structural metal fitter **9612**
helper, structural plate fitter – construction **7611**
helper, substation operator **9613**
helper, supercalender – pulp and paper **9614**
helper, tankhouse – primary metal processing **9611**
helper, teacher **6472**
helper, terrazzo finisher **7611**
helper, terrazzo layer **7611**
helper, terrazzo mechanic **7611**
helper, terrazzo polisher **7611**
helper, tile setter **7611**
helper, timber and steel prop setter **8614**
helper, timber-treating tank **9614**
helper, trades – construction **7611**
helper, tree surgeon **8612**
helper, tubing – oil field services **8615**
helper, tunnelling machine operator – construction **7611**
helper, upholstery **9619**
helper, upsetter – metal fabrication **9612**
helper, warehouse keeper **7452**
helper, warp drawer-in – textiles **9442**
helper, waterproofer **7611**
helper, welder **9612**
helper, welder-fitter **9612**
helper, welder-fitter – construction **7611**
helper, welder-fitter – manufacturing **9612**
helper, welding machine operator **9612**
helper, welding-rod-extruder operator – primary metal processing **9611**
helper, well puller – oil field services **8615**
helper, well treatment – oil field services **8615**
helper, wire drawer **9611**
helper, wire drawing **9611**
helper, wire loom **9612**
helper, wire weaver **9612**
helper, wireline **8615**
helper, wireline – oil field services **8615**
helper, woodworking shop **9619**
hematological-pathologist **3111**
hematologist **3111**
hematology technician – medical laboratory **3212**
hematology technologist – medical laboratory **3211**
hematology, chief of **0311**
hematopathologist **3111**
hematopathology specialist **3111**
hemmer machine operator – sewing **9451**
hemodialysis nurse **3152**
hemodialysis technician **3219**
hemodialysis technologist **3219**
henna tattoo artist **6482**
heraldist **5243**
herb practitioner **3232**
herbal medicine assistant **3414**
herbal practitioner **3232**
herbal specialist **3232**
herbalist **3232**
herbarium curator **5112**
herbologist **3232**
herbology practitioner **3232**
herborist **3232**
herd attendant **8253**
herd attendant, feedlot **8253**
herd superintendent **8253**
herder – stockyards **8431**
herdsman/woman **8253**
herdsperson **8253**
heritage interpreter **5212**
heritage languages education consultant **4166**
heritage languages program director **0413**
heritage planner – land use **2153**
heritage work planner **2153**
herpetologist **2121**
hide and pelt processing inspector **9454**
hide and pelt processing labourer **9619**
hide and pelt processing worker **9453**
hide and skin preparer **9453**
hide curing foreman/woman – food and beverage processing **9213**
hide fluffer – hide and pelt processing **9453**
hide grader **9454**
hide inspector **9454**
hide parer – hide and pelt processing **9453**
hide processing worker **9453**
hide sorter **9454**
hide stretcher **9453**
hide tanning supervisor **9225**
high commissioner **0012**
high rigger, theatre **5227**

high school librarian **4141**
high school library teacher **4141**
high school principal **0313**
high school teacher **4141**
high school teacher, English as a second language **4141**
high school teacher, French as a second language **4141**
high school teacher, physical education **4141**
high school teacher, religious and moral education **4141**
high school teacher, science **4141**
high school teacher, special education **4141**
high speed printer operator **9471**
high voltage lineman/linewoman **7244**
high voltage lineman/woman – electric power systems **7244**
high voltage transformer bushing assembler **9485**
high-raise blaster **8231**
high-speed machine operator – tobacco products **9464**
high-speed machine warper – textile manufacturing **9441**
high-speed packer operator – tobacco products **9464**
high-speed stud operator – sawmill **9431**
high-temperature physicist **2111**
high-voltage maintenance lineman/woman **7244**
high-voltage power line patroller – electric power systems **7244**
high-voltage power transformer repairer **7333**
high-voltage tower lineman/woman **7244**
highway and bridge maintenance road boss **7217**
highway and street cement mason **7282**
highway commissioner **0012**
highway concrete mixer operator helper **7611**
highway construction boss **7217**
highway construction foreman/woman **7217**
highway construction general manager **0016**
highway construction inspector **2264**
highway construction manager **0711**
highway construction materials testing technician **2231**
highway engineer **2131**
highway line painter **7621**
highway maintenance foreman/woman **7217**
highway maintenance worker **7611**
highway patrol officer **6261**
highway patrolman/woman **6261**
highway radio-telephone operator **1475**
highway scale operator **6463**
highway sign erector **7611**
highway snow removal equipment operator **7422**
highway snowplough operator **7422**
highway technician **2231**
highway traffic technician **2231**
high-wire walker **5232**
hiking guide **6442**
histologist **2121**
histology technician **3211**
histology technologist – medical laboratory **3211**
histopathologist **2121**
histopathologist – medical specialist **3111**
histopathology technologist **3211**
historian **4169**
historic site interpreter **5212**
historic sites administrator **0511**
historical archivist **5113**
historical artifact conservator **5112**
historical geographer **4169**
historical interpreter **5212**
historical park assistant director **0511**
historical park assistant superintendent **0511**
historical park director **0511**
historical park superintendent **0511**
historical site technician **5212**
historical village supervisor **5212**
historical village technician **5212**
history museum interpreter **5212**
history professor – university **4121**
history teacher – college **4131**
history teacher, secondary school **4141**
histotechnologist – medical laboratory **3211**
hockey association general manager **0015**
hockey coach **5252**
hockey player **5251**
hockey scout **5252**
hockey stick assembler **9493**
hockey stick inspector-grader **9493**
hockey team coach **5252**
hog breeder **8251**
hog buyer **6233**
hog farm foreman/woman **8253**
hog farm supervisor **8253**
hog farm worker **8431**
hog farm workers supervisor **8253**
hog farmer **8251**
hog killer **9462**
hog machine tender – wood processing **9614**
hog operation supervisor **8253**
hog producer **8251**
hogshead assembler – wood products manufacturing **9493**
hogshead filler – tobacco products **9617**

hogshead inspector – tobacco processing **9465**
hoist operator – foundry **7371**
hoist operator – underground mining **8231**
hoist operator (except underground mining) **7371**
hoist operator, boom truck **7371**
hoist operator, crane **7371**
hoisting-and-lifting equipment assembly foreman/woman **9226**
hoistman/woman underground mining **8231**
hole saw tender – woodworking **9513**
holidays service manager **0651**
holistic practitioner **3232**
hollowware-buffing machine tender **9517**
hologram-imprinting machine tender **9473**
holographics technician **2241**
holographics technologist **2241**
Holter monitor technologist **3217**
Holter scanning technologist **3217**
home builder **0712**
home building contractor **0712**
home care neuroscience nurse **3152**
home care nurse **3152**
home care nurse, neuroscience **3152**
home care occupational therapist **3143**
home care service manager **0651**
home care services director – government services **0411**
home care services director – medical services **0311**
home cleaner **6661**
home construction inspector **2264**
home decorating consultant – retail **6421**
home demonstrator – retail **6623**
home economics consultant **4164**
home economics department head – secondary school **4141**
home economics teacher – elementary school **4142**
home economics teacher – secondary school **4141**
home economics technologist **2211**
home economist **4164**
home economist – consumer association **4164**
home health aide **6471**
home health care aide **6471**
home health care worker **6471**
home inspector **2264**
home lighting technician **2241**
home mission worker – religion **4217**
home office underwriter – insurance **1234**
home renovation contractor **0712**
home renovator **0712**
home salesperson **6623**
home support worker **6471**
home trade first mate **2273**
home trade master **2273**
home trade second mate **2273**
home-care programs consultant **4165**
home-care worker **6471**
homemaker **6471**
homemaker helper, rest home **6661**
homemaker services director – government services **0411**
homemaker services director – social services **0314**
homeopath **3232**
homeopathic physician **3232**
homeopathic practitioner **3232**
homeopathist **3232**
homogenizer operator – food and beverage processing **9461**
honer, safety razor blades **9517**
honey grader and blender **9465**
honey-processing equipment operator **9461**
honing machine operator – metal machining **9511**
honing machine set-up operator – metal machining **9511**
hood fitter – motor vehicle manufacturing **9482**
hoof remover – food and beverage processing **9617**
hook and rig supervisor – logging **8211**
hook repairer – textile manufacturing **7317**
hook tender – logging **8211**
hooker-laster – rubber products manufacturing **9423**
hoop bender **9514**
hoop net fisherman/woman **8262**
hoop-driver operator – woodworking **9513**
hoop-driving machine operator – woodworking **9513**
hoop-maker machine operator – metal fabrication **9514**
hoop-making machine operator **9516**
hoop-punching and hoop-coiling machine operator – metal products manufacturing **9516**
hoop-riveting machine operator **9516**
hop farm foreman/woman **8253**
hop grower **8251**
hop producer **8251**
hop-picking machine operator **8431**
ho-ram operator **7421**
horizontal boring and milling machine set-up operator **9511**
horizontal boring machine operator – woodworking **9513**

horizontal earth-boring machine helper **7611**
horizontal earth-boring machine operator **7421**
horizontal resaw operator – woodworking **9513**
horn player **5133**
horn teacher – private, conservatory or studio lessons **5133**
horse breaker **8431**
horse breeder **8251**
horse hot-walker **6483**
horse identifier **5253**
horse plating inspector – racetrack **5253**
horse race timer **5253**
horse racing director **0513**
horse racing starter **5253**
horse stable foreman/woman **8253**
horse trainer **8253**
horseback riding guide **6442**
horseback riding instructor **5254**
horse-drawn vehicle sightseeing tour guide **6441**
horseshoe inspector **5253**
horseshoer **7383**
horticultural contractor **8254**
horticultural greenhouse operator **8254**
horticultural technician **2225**
horticultural technologist **2225**
horticulture and landscaping instructor – school of horticulture **4131**
horticulture specialist **2225**
horticulture technician **2225**
horticulture technologist **2225**
horticulture worker supervisor **8256**
horticulturist **2225**
hose builder, rubber **9423**
hose building foreman/woman – rubber manufacturing **9214**
hose checker – rubber products manufacturing **9615**
hose curer – rubber products manufacturing **9423**
hose cutter and brander operator – rubber products manufacturing **9423**
hose cutter, hand – rubber products manufacturing **9615**
hose maker machine operator – rubber products manufacturing **9423**
hose maker, hand – rubber products manufacturing **9423**
hose maker, machine – rubber products manufacturing **9423**
hoseman/woman insulation helper **7611**
hoseman/woman, insulation **7611**
hosiery boarder **9443**
hosiery folder **9616**
hosiery foreman/woman **9216**
hosiery grader **9444**
hosiery inspector **9444**
hosiery knitter **9442**
hosiery looper – textiles **9442**
hosiery pairer **9444**
hosiery seamer – textiles **9442**
hosiery sizer **9444**
hosiery tray dryer **9616**
hosiery-knitting machine tender **9442**
hospice worker **3413**
hospital administrator **0014**
hospital admissions clerk **1414**
hospital admissions director **0114**
hospital admitting clerk **1414**
hospital admitting clerks supervisor **1211**
hospital aide **3413**
hospital attendant **3413**
hospital baker **6252**
hospital cleaner **6661**
hospital cook **6242**
hospital druggist **3131**
hospital equipment sales representative **6221**
hospital equipment salesperson **6221**
hospital executive director **0014**
hospital executive housekeeper **6213**
hospital food service supervisor **6212**
hospital hygiene nurse **3152**
hospital hygienist – nursing **3152**
hospital information clerk **1453**
hospital insurance clerk **1434**
hospital meal attendant **6641**
hospital nurse **3152**
hospital orderly **3413**
hospital pharmacist **3131**
hospital porter **3413**
hospital receptionist **1414**
hospital records clerk **1413**
hospital television rental attendant **6421**
hospital tray carrier **6641**
hospital ward aide **3413**
host/hostess – restaurant or cocktail lounge **6451**
host/hostess – television or radio **5231**
host/hostess, dining room **6451**
host/hostess, food service **6451**
host/hostess, game show **5231**
host/hostess, restaurant **6451**
host/hostess, ski resort **6441**
host/hostess, talk show **5231**
hostel co-ordinator **4212**
hostel manager **0632**
hostel outreach worker **4212**

hostel service aide – medical **3413**
hostler – transit system **7443**
hostler, railway **7361**
hot air balloonist **6442**
hot bed leverman/woman – primary metal processing **9611**
hot composition foreman/woman – printing **7218**
hot dog vendor **6623**
hot metal crane operator **7371**
hot mill roller – primary metal processing **9231**
hot plate press tender helper **9614**
hot press operator – clay products **9414**
hot press operator – metal forging **9512**
hot press operator – wood processing **9434**
hot press tender – woodworking **9513**
hot strip finishing mill tender – primary metal processing **9411**
hot strip roughing mill tender – primary metal processing **9411**
hot tub installer **7441**
hot water heater installation contractor **7219**
hot water heater installer **7441**
hot-box moulder – foundry **9412**
hot-dip coater – metal plating **9497**
hot-dip galvanizer – metal plating **9497**
hotel accommodation sales executive **6411**
hotel and restaurant inspector – public health **2263**
hotel assistant manager **0632**
hotel baker **6252**
hotel cashier **6611**
hotel cleaner **6661**
hotel clerk **6435**
hotel clerk supervisor **6216**
hotel clerk, front office **6435**
hotel concierge **6435**
hotel director **0632**
hotel doorkeeper **6672**
hotel executive housekeeper **6213**
hotel food and beverage service manager **0631**
hotel front desk clerk **6435**
hotel front desk manager **0632**
hotel front office clerk **6435**
hotel front office manager **0632**
hotel general manager **0015**
hotel information clerk **1453**
hotel management teacher – college **4131**
hotel manager **0632**
hotel managing supervisor **6216**
hotel night auditor **6435**
hotel operator **0632**
hotel purchasing agent **1225**
hotel purchasing officer **1225**
hotel receptionist **6435**
hotel services sales representative **6411**
hotel supply sales representative **6411**
hotel valet **6683**
hotel waiter/waitress – formal service **6453**
hothouse flower grower **8254**
hothouse installers foreman/woman **7219**
hothouse worker **8432**
hot-walker, horses **6483**
hot-wound spring coiler **9516**
house automation technician **2232**
house carpenter **7271**
house cleaner **6661**
house detective **6465**
house mover contractor **7217**
house moving foreman/woman **7217**
House of Commons chief clerk **0314**
House of Commons committee officer **4168**
House of Commons officer **4168**
house painter **7294**
house trailer assembly foreman/woman **9226**
house trailer salesperson – retail **6421**
household and business equipment technician **2242**
household appliance installer **7441**
household appliance salesperson – retail **6421**
household electrical appliance repair shop foreman/woman **7216**
household electrical appliance repairman/woman **7332**
household electrical appliance service technician **7332**
household goods mover **7452**
housekeeper **6471**
housekeeping aide **6661**
housekeeping attendant **6661**
housekeeping director **6213**
housekeeping manager **6213**
housekeeping room attendant **6661**
housekeeping room attendant supervisor **6215**
housekeeping services director – government services **0411**
housekeeping supervisor **6215**
housemaid – cleaning services **6661**
houseman/woman **6661**
houseparent, halfway house **4212**
housesitter **6683**
housewares salesperson – retail **6421**
housing construction inspector **2264**
housing construction manager **0711**
housing development officer **1224**

housing officer, public housing **4164**
housing policy analyst **4164**
housing policy and development director – government services **0411**
housing project manager **1224**
housing rehabilitation inspector **2264**
housing rehabilitation specialist – builder **0712**
housing renovator **0712**
hovercraft master **2273**
hull draftsperson – shipbuilding and repair **2253**
hull inspector **9491**
hull surveyor **9491**
hull technician – military **7263**
human development psychologist **4151**
human factors engineer **4161**
human factors specialist (except engineer) **4161**
human physiologist **2121**
human relations officer – family and children's services **4153**
human relations officer – family therapy **4153**
human resources administrator **0112**
human resources adviser **1223**
human resources and organizational development vice-president – financial, communications and other business services **0013**
human resources and organizational development vice-president – goods production, utilities, transportation and construction **0016**
human resources and organizational development vice-president – health, education, social and community services and membership organizations **0014**
human resources and organizational development vice-president – trade, broadcasting and other services **0015**
human resources assistant **1442**
human resources classification officer **1121**
human resources clerk **1442**
human resources consultant **1121**
human resources co-ordinator **1121**
human resources development and planning director **0112**
human resources development director **0112**
human resources director **0112**
human resources economist **4162**
human resources generalist **1121**
human resources management consultant **1121**
human resources management director **0112**
human resources manager **0112**
human resources officer **1223**
human resources planning consultant **1121**
human resources planning manager **0112**
human resources policy analyst **1121**
human resources policy officer **1121**
human resources program supervisor **0112**
human resources research officer **1121**
human resources secretary **1241**
human resources specialist **1121**
human resources supervisor **1121**
human resources vice-president – bank **0013**
human resources vice-president – financial, communications and other business services **0013**
human resources vice-president – goods production, utilities, transportation and construction **0016**
human resources vice-president – health, education, social and community services and membership organizations **0014**
human resources vice-president – trade, broadcasting and other services **0015**
Human Rights Commission chairperson **0012**
Human Rights Commission officer **4164**
Human Rights Commission officers supervisor **4164**
human rights officer **4164**
human rights officer – government services **4164**
human rights specialist **4164**
Humane Society inspector **6463**
Humane Society officer **6463**
humanities professor – university **4121**
humidifier tender – wood processing **9434**
humidifying systems operator **7351**
humorist – performing arts **5135**
humorist-author **5121**
hunter **8442**
hunter machine operator – foundry **9412**
hunting and fishing guide **6442**
hunting and fishing lodge manager **0632**
hunting and fishing outfitter **6442**
hunting camp operator **0632**
hunting guide **6442**
hunting guns salesperson – retail **6421**
HVAC (heating, ventilating and air conditioning) engineer **2132**
HVAC (heating, ventilating and air conditioning) mechanics foreman/woman **7216**
HVAC (heating, ventilating and air conditioning) systems specialist **2232**
HVAC (heating, ventilating and air conditioning) technologist **2232**
HVAC (heating, ventilation and air conditioning) mechanic **7313**

hybrid circuit assembler – electronic equipment manufacturing **9483**
hybrid inspector – electronic equipment manufacturing **9483**
hydrant and valve maintenance worker **7442**
hydrate scale reclaimer – primary metal processing **9611**
hydrate thickener operator **9411**
hydrator operator **9421**
hydraulic barker operator – wood processing **9434**
hydraulic chair assembler **9492**
hydraulic coal monitor operator **8231**
hydraulic excavator operator **7421**
hydraulic hoist assembler **9486**
hydraulic installation – aircraft assembly **9481**
hydraulic machinery draftsperson **2253**
hydraulic mechanic, aircraft **7315**
hydraulic press operator – metal fabrication **9514**
hydraulic press operator, concrete **9414**
hydraulic press tender – woodworking **9513**
hydraulic pump assembler **9486**
hydraulic system installer – aircraft assembly **9481**
hydraulic unit repair shop foreman/woman **7216**
hydraulic unit repairer **7445**
hydraulics engineer **2131**
hydraulics inspector, aircraft **7315**
hydraulics shop technician, aircraft **7315**
hydraulics technician, aircraft **7315**
hydraulics tester, aircraft **7315**
hydraxtor tumble dryer tender – laundry and dry cleaning **6681**
hydrobiologist **2121**
hydrocarbon mud logger – oil field services **8232**
hydrochemist **2112**
hydro-electric generating station operator **7352**
hydro-electric power plant operator **7352**
hydro-electric power production plant director **0912**
hydro-electric power station director **0912**
hydro-electric power station president **0016**
hydro-electric station chief operator **9212**
hydro-electricity sales representative **6221**
hydrogen braze furnace man/woman **7265**
hydrogen braze furnace operator **7265**
hydrogen furnace tender – clay products **9414**
hydrogen process plant operator **9232**
hydrogenation operator – food and beverage processing **9461**
hydrogeological engineer – engineering **2144**
hydrogeologist **2113**
hydrogeology engineer – engineering **2144**
hydrographic engineer **2131**
hydrographic survey technician **2212**
hydrographic survey technologist **2212**
hydrographic surveyor – geology **2113**
hydrological engineer **2131**
hydrological technician **2212**
hydrologist **2113**
hydrology technician **2212**
hydrometallurgical engineer **2142**
hydrometallurgist **2115**
hydrometeorologist **2114**
hydrometer assembler **9498**
hydroponic greenhouse operator **8254**
hydroponics grower **8254**
hydroponics operator **8254**
hydroponics technician **2225**
hydroponics worker **8432**
hydrostatic tester **2261**
hydrovac truck operator **7411**
hygiene professor – university **4121**
hygiene technician – military **2263**
hyperbaric physician **3111**
hypnotherapist **3232**
hypnotist **5232**

I

IC (integrated circuit) fabrication supervisor – electronic equipment manufacturing **9222**
ice chip maker tender **9517**
ice cream counter attendant **6641**
ice cream decorator **9461**
ice cream maker **9461**
ice cream making foreman/woman **9213**
ice cream novelty maker **9461**
ice cream processing assistant supervisor **9213**
ice cream vendor **6623**
ice cream worker – food and beverage processing **9617**
ice machine tender **9517**
ice maker **9517**
ice maker, rink **6671**
ice observer **2213**
ice patroller, arena **6671**
ice rink attendant **6671**
ice rink supervisor **6216**
ice sculptor **5136**
ice service specialist **2213**
ice specialist **2113**
ice-cutting machine tender **9517**
icer, fishing vessel **8441**

icer, hand – bakery **6252**
icer, rink **6671**
ice-skating instructor **5254**
ichthyological technician **2221**
ichthyological technologist **2221**
ichthyologist **2121**
icing dipper – food and beverage processing **9617**
icing machine operator – food and beverage processing **9461**
icing maker – food and beverage processing **9461**
icing mixer – food and beverage processing **9461**
icing sugar mill tender **9461**
iconographer **5111**
ICU (intensive care unit) nurse **3152**
identification clerk **1442**
identification officer – police **6261**
identifier, horses **5253**
igniter assembler **9498**
illusionist **5232**
illustrator **5241**
illustrator and graphic designer **5241**
illustrator, technical – drafting **2253**
image consultant **6481**
image co-ordinator **6481**
image processing operator **9472**
image reproduction machine operator **9472**
image setter operator **9472**
image-processing system operator **9472**
imam **4154**
immigrant investors program co-ordinator **1221**
immigrant settlement liaison officer **4164**
Immigration Act enforcement officer **1228**
immigration agent – government services **1228**
immigration and demographic analysis officer **4164**
immigration and settlement director – government services **0411**
Immigration Appeal Division director – government services **0411**
immigration appeal officer **1228**
immigration appeals and litigation chief – government services **0411**
immigration appeals manager – government services **0411**
immigration consultant **1228**
immigration examiner **1228**
immigration examining officer **1228**
immigration inspector **1228**
immigration lawyer **4112**
immigration officer – government services **1228**
immigration officers supervisor **1228**
immigration policy advisor **4164**
immigration policy analyst **4164**
immigration policy consultant – non-government **4164**
immigration practitioner – non-government **4164**
immunohematology technologist – medical laboratory **3211**
immunologist **2121**
immunologist and allergologist **3111**
immunology technologist – medical laboratory **3211**
impact hammer operator – metal forging **9512**
impersonator **5232**
implantologist – dentistry **3113**
implementation officer **1221**
import clerk **1441**
import company sales representative **6411**
import company technical sales specialist **6221**
import documentation clerk **1441**
import freight clerk **1471**
import sales representative **6411**
import traffic clerk **1441**
import traffic manager **0713**
import traffic supervisor **1215**
importer **6411**
import-export tradesperson – wholesale **6411**
imposition planner **1423**
impositor **1423**
impregnator and dryer – electronic equipment manufacturing **9483**
impregnator, electrical equipment **9487**
impressing machine tender – metal machining **9511**
impression die press operator – metal fabrication **9514**
imprinting machine tender, plastics **9422**
improviser **5135**
inboard-outboard mechanic **7335**
inbound customer service representative **1453**
inbound/outbound freight co-ordinator **1475**
incandescent lamp making inspector **9487**
in-charge flight attendant **6432**
in-charge technologist – autopsy services **3211**
incinerator foreman/woman **9212**
incinerator plant tender **9619**
in-circuit test operator **9483**
incising machine tender – wood processing **9434**
income maintenance director **0314**
income maintenance officer – social services **4212**
income maintenance program officer **4164**
income security district administrator – government services **0411**

income security regional manager – government services **0411**
income tax adjuster **1111**
income tax adviser **1111**
income tax consultant **1111**
income tax expert **1111**
income tax investigator **1111**
income tax return preparer **1431**
income tax specialist **1111**
incubator tender – agriculture **8431**
independent floor trader **1113**
independent living instructor **4212**
independent or applied studies officer **4143**
independent paralegal **4211**
independent practice nurse **3152**
independent public accountants chief **0111**
indium refiner **9411**
induction brazer operator **7265**
induction brazer, production **7265**
induction furnace operator – foundry **9412**
induction furnace operator – mineral and metal processing **9231**
induction machine setter – primary metal processing **9411**
induction machine tender – primary metal processing **9411**
induction solderer **7265**
induration attendant – iron ore **9411**
industrial accountant **1111**
industrial and commercial buildings architect **2151**
industrial and commercial methods analyst **1122**
industrial and manufacturing production manager **0911**
industrial and vocational education teacher **4141**
industrial arts teacher – elementary school **4142**
industrial arts teacher – secondary school **4141**
industrial audiologist **3141**
industrial audiometric technician **3235**
industrial auditor **1111**
industrial backhoe operator **7421**
industrial bacteriological technician **2221**
industrial bacteriological technologist **2221**
industrial bacteriologist **2121**
industrial battery assembler **9487**
industrial belt repairer **7445**
industrial binder – printing **9473**
industrial boilermaker **7262**
industrial brake and AC (alternating current) motor assembler **9485**
industrial brake and alternating current (AC) motor assembler **9485**
industrial butcher **9462**
industrial butcher helper **9617**
industrial chemist **2112**
industrial chimney repairer-mason helper **7611**
industrial cleaner **6663**
industrial coater **9496**
industrial coil winder-repairer **7333**
industrial commissioner **4163**
industrial construction boilermaker **7262**
industrial construction manager **0711**
industrial construction painter **7294**
industrial construction safety inspector **2264**
industrial design consultant **2252**
industrial designer **2252**
industrial development director – government services **0412**
industrial development officer – government **4163**
industrial development representative **4163**
industrial door installer **7441**
industrial economist **4162**
industrial efficiency engineer **2141**
industrial electric equipment assembler **9485**
industrial electric equipment fabricator **9485**
industrial electric equipment inspector **9485**
industrial electric installation inspector **2264**
industrial electrical systems foreman/woman **7212**
industrial electrician **7242**
industrial electrician apprentice **7242**
industrial electrician lead hand **7242**
industrial electricians foreman/woman **7212**
industrial electricians supervisor **7212**
industrial engineer **2141**
industrial engineering analyst **2233**
industrial engineering department manager **0211**
industrial engineering professor – university **4121**
industrial engineering technician **2233**
industrial engineering technologist **2233**
industrial engines and equipment apprentice **1472**
industrial engines and equipment partsperson – retail **1472**
industrial equipment sales engineer **6221**
industrial fire chief **0642**
industrial firefighter **6262**
industrial forester **2122**
industrial furnace bricklayer **7281**
industrial furnace brickmason **7281**
industrial furnace cleaner – primary metal and mineral products processing **9611**
industrial gas fitter-tester **7253**
industrial gas servicer **7253**

industrial geographer **4169**
industrial health officer **2263**
industrial heat exchanger boilermaker **7262**
industrial hoist mechanic **7311**
industrial hygiene and health director – government services **0411**
industrial hygiene engineer **2134**
industrial hygiene inspector **2263**
industrial hygiene technologist **2211**
industrial hygienist **4161**
industrial instrument mechanic **2243**
industrial instrument panel repairer **2243**
industrial instrument repairer helper **7612**
industrial instrument technician **2243**
industrial instrumentation teacher – vocational institute **4131**
industrial knitting needle machine feeder **9516**
industrial lawyer **4112**
industrial locomotive engineer **7361**
industrial machinery assembly foreman/woman **7216**
industrial machinery maintenance mechanic **7311**
industrial machinery manufacturing foreman/woman **7216**
industrial machinery mechanics foreman/woman **7216**
industrial machinery oiler **7612**
industrial machinery sales representative **6221**
industrial maintenance manager **0721**
industrial maintenance painter **7294**
industrial meat chopper **9462**
industrial meat cutter **9462**
industrial mechanic **7311**
industrial mechanic and millwright **7311**
industrial mechanic apprentice **7311**
industrial mechanic helper **7612**
industrial mechanic, gas turbine machinery **7311**
industrial mechanic, mine hoists **7311**
industrial mechanic, petroleum refinery **7311**
industrial mechanics foreman/woman **7216**
industrial mechanics supervisor **7216**
industrial mechanic-welder **7311**
industrial medical officer **3112**
industrial medicine physician **3112**
industrial meteorologist **2114**
industrial motor winder-repairer **7333**
industrial needle machine setter-operator **9516**
industrial needle machine set-up operator **9516**
industrial needle maker **9516**
industrial nurse **3152**
industrial order completion checking clerk **1473**
industrial oven brickmason **7281**
industrial paint baker **9496**
industrial paint dipper **9496**
industrial paint finisher **9496**
industrial paint mixer **9496**
industrial paint sprayer operator **9496**
industrial painter **9496**
industrial painter, finishing rollers **9496**
industrial pharmacist **3131**
industrial photographer **5221**
industrial physician **3112**
industrial plant cleaner **6663**
industrial plant cleaning supervisor **6215**
industrial plant maintenance mechanic **7311**
industrial process control equipment repairer **2243**
industrial products designer **2252**
industrial products painter **9496**
industrial psychologist **4151**
industrial pump repairer **7311**
industrial radiographer **2261**
industrial radiographer – radiotelephony **2261**
industrial relations consultant **1121**
industrial relations economist **4162**
industrial relations manager **0112**
industrial relations officer **1121**
industrial safety engineer **2141**
industrial safety instructor **4131**
industrial safety officer – occupational health and safety **2263**
industrial sewing machine operator **9451**
industrial sheet metal worker **7261**
industrial site interpreter **6441**
industrial sociologist **4169**
industrial spray painter **9496**
industrial statistician **2161**
industrial storage battery plate assembler **9487**
industrial supplies sales representative **6221**
industrial supplies salesperson **6221**
industrial tool sales representative **6411**
industrial trade economist **4162**
industrial truck mechanic **7334**
industrial truck operator **7452**
industrial truck repairer **7334**
industrial upholsterer **7341**
industrial warehouse person **1472**
industrial washing machine tender **9619**
industrial waste control inspector **2263**
industrial waste reduction program co-ordinator **4161**
industrial waste treatment engineer **2134**
industrial waste treatment plant operator **9424**
industrial welder **7265**

industrial, farm and construction machinery mechanics and repairers foreman/woman **7216**
industry, trade and technology director – government services **0412**
infant day-care workers supervisor **4214**
infant transport attendant **3234**
infanteer – military **6464**
infantry officer **0643**
infantry soldier – military **6464**
infantryman/woman – military **6464**
infants' day-care worker **4214**
infection control co-ordinator – hospital **3152**
infection control nurse **3152**
infection control officer – hospital **3152**
infection control officer – medical **3152**
infection surveillance nurse **3152**
infectious disease physician **3111**
infectious disease specialist **3111**
infectious diseases, chief of **0311**
infertility specialist **3111**
inflated ball moulder **9517**
in-flight service manager **6432**
informatics applications analyst **2171**
informatics business analyst **2171**
informatics consultant **2171**
informatics quality assurance (QA) analyst **2171**
informatics security analyst **2171**
informatics security consultant **2171**
information agent, travel **6431**
information and communications manager **0611**
information and records clerk **1411**
information and reference librarian **5111**
information clerk – customer service **1453**
information clerks supervisor **1213**
information consultant **5124**
information co-ordinator **5124**
information desk clerk **1414**
information editor **5122**
information officer **5124**
information officer, publicity **5124**
information officer, recreation association **5124**
information operator **1424**
information resource analyst **2172**
information service co-ordinator **5124**
information service manager **0611**
information services librarian **5111**
information systems analyst – computer systems **2171**
information systems business analyst **2171**
information systems contingency planner **2171**
information systems manager **0213**
information systems quality assurance (QA) analyst **2171**
information systems vice president – trade, broadcasting and other services **0015**
information systems vice-president – financial, communications and other business services **0013**
information systems vice-president – goods production, utilities, transportation and construction **0016**
information systems vice-president – health, education, social and community services and membership organizations **0014**
information technology (IT) analyst **2171**
information technology (IT) business analyst **2171**
information technology (IT) consultant **2171**
information technology (IT) development manager **0213**
information technology (IT) integration manager **0213**
infrared technician **2261**
infrared tester **2261**
infrared thermographer **2261**
infrared thermography technician **2261**
ingot buggy operator **9411**
ingot cladder **9611**
ingot finishing operator **9411**
ingot header **9411**
ingots inspector – primary metal processing **9415**
ingredients scaler and dispenser – food and beverage processing **9461**
inhalation technologist **3214**
in-hole drill operator – underground mining **8231**
in-hole driller helper – underground mining **8411**
in-house legal counsel **4112**
in-house training manager **1121**
injection moulder – plastic manufacturing **9422**
injection moulder operator – plastic manufacturing **9422**
injection moulding foreman/woman – rubber and plastic manufacturing **9214**
injection moulding operator – plastic manufacturing **9422**
injection moulding supervisor – plastic products manufacturing **9214**
injection moulding technician **2233**
injection moulding tool and die maker **7232**
injection mouldmaker **7232**
injection operator – plastic manufacturing **9422**
injection plastic moulder **9422**

injection-moulding machine operator – plastic manufacturing **9422**
ink evaluation and press operator – printing **7381**
ink evaluation pressman/woman – printing **7381**
ink fountain cleaner – printing **9619**
ink matcher **9421**
ink purifier **9421**
ink sketcher **5136**
inker and painter, animated cartoons **5223**
inker, animated cartoons **5223**
inker, ribbons **9517**
inland navigation mate **2273**
inlayer – woodworking **9492**
inline skating instructor **5254**
inn manager **0632**
inn operator **0632**
inner tube building foreman/woman **9214**
inner tube checker – rubber products manufacturing **9615**
inner tube finisher – rubber products manufacturing **9423**
inner tube inserter – rubber products manufacturing **9615**
inner tube repairer – rubber products manufacturing **9615**
inner tube skiver – rubber products manufacturing **9423**
inner tube sorter – rubber reclaiming **9423**
inner tube valve builder **9423**
inner tube vulcanizer tender – rubber products manufacturing **9423**
inner-tube-processing equipment tender – rubber products manufacturing **9423**
innkeeper **0632**
inorganic chemist **2112**
in-process assembly inspector – automobile assembly **9482**
in-process inspector – electric equipment manufacturing **9484**
input compositor – typesetting **1423**
input operator – typesetting **1423**
inquiries and services chief – employment insurance **0411**
insect physiologist **2121**
insectarium conservator **5112**
insectarium curator **5112**
insectarium interpreter **5212**
insecticide mixer **9421**
inserter – printing **9619**
inserter, inner tubes – rubber products manufacturing **9615**
inserter, pail handles **9619**
inserter, springs – furniture manufacturing **9619**
inserter, tire tubes – rubber products manufacturing **9615**
inserting machine operator – printing **9473**
inserting machine tender – mail and postal services **1461**
inshore fisherman/woman **8262**
insole filler – footwear manufacturing **9619**
insole tape machine operator **9517**
insole-moulding machine operator **9517**
insole-moulding machine tender **9517**
insole-tacking machine operator **9517**
inspecting machine tender – textiles **9444**
inspecting, testing and grading foreman/woman – primary metal and mineral products processing **9211**
inspection foreman/woman – textile processing **9216**
inspection foreman/woman, farm machinery **9226**
inspection services director – education **0413**
inspector – by-law enforcement **6463**
inspector – education **4166**
inspector – electrical appliance assembly **9484**
inspector – electronic equipment manufacturing **9483**
inspector – fabric products manufacturing **9454**
inspector – fur products manufacturing **9454**
inspector – furniture manufacturing **9492**
inspector – large transformer manufacturing **9485**
inspector – laundry and dry cleaning **6681**
inspector – metal processing **9415**
inspector – municipal law enforcement **6463**
inspector – primary metal and mineral products processing **9415**
inspector – printed circuit board fabrication **9483**
inspector – textiles **9444**
inspector – wood processing **9436**
inspector and bill collector – electric power company **1435**
inspector and bill collector – gas company **1435**
inspector and finisher, fibreglass boats **9491**
inspector and grader, tin plates **9415**
inspector and repairer, sports balls **9498**
inspector and sorter, eyeglass frames **9498**
inspector and tester, AC (alternating current) and DC (direct current) motors **9485**
inspector and tester, aircraft electrical equipment **2244**
inspector and tester, aircraft electronic equipment **2244**
inspector and tester, automobiles – motor vehicle manufacturing **9482**

inspector and tester, battery case – electrical equipment manufacturing **9487**
inspector and tester, battery cases **9487**
inspector and tester, construction **2264**
inspector and tester, electric lamps **9484**
inspector and tester, electric lawnmower **9484**
inspector and tester, electric snowblower **9484**
inspector and tester, electron tube **9483**
inspector and tester, outboard motors **9486**
inspector and tester, plastic products **9495**
inspector and tester, turbine assembly **9486**
inspector general of financial institutions **0012**
inspector of perishable goods **2222**
inspector, AC (alternating current) and DC (direct current) motors **9485**
inspector, agricultural implements **9486**
inspector, agricultural implements assembly **9486**
inspector, air carrier maintenance **2262**
inspector, air transport **2262**
inspector, aircraft **7315**
inspector, aircraft assembly **9481**
inspector, aircraft engine overhaul **7315**
inspector, aircraft engines **7315**
inspector, aircraft fabrication **9481**
inspector, aircraft mechanical systems **7315**
inspector, aircraft mechanical systems flight tests **7315**
inspector, aircraft mechanical systems repair **7315**
inspector, aircraft mechanical systems repair shop **7315**
inspector, aircraft systems **7315**
inspector, all-terrain vehicles **9486**
inspector, ammunition **9498**
inspector, ammunition loading **9498**
inspector, ammunition manufacturing **9498**
inspector, asbestos shingles **9415**
inspector, asphalt roofing materials **9421**
inspector, assembled furniture **9492**
inspector, assembly – furniture manufacturing **9492**
inspector, assembly – motor vehicle manufacturing **9482**
inspector, assembly line – electric equipment manufacturing **9484**
inspector, assembly line – plastic manufacturing **9495**
inspector, auto parts machine shop **7231**
inspector, automobiles – motor vehicle manufacturing **9482**
inspector, automotive wiring harnesses **9485**
inspector, avionics **2244**
inspector, ball bearings **9498**
inspector, banks **1114**
inspector, barrels – wood products manufacturing **9493**
inspector, bearings **9498**
inspector, beverages **9465**
inspector, beverages and bottles **9465**
inspector, bicycles **9498**
inspector, black light **2261**
inspector, boat assembly **9491**
inspector, boats **9491**
inspector, body frames – motor vehicle manufacturing **9482**
inspector, body-in-white – motor vehicle manufacturing **9482**
inspector, boiler installation **2264**
inspector, bricks and tiles **9415**
inspector, bridges **2264**
inspector, bridges – construction and maintenance **2264**
inspector, bridges and buildings **2264**
inspector, building construction **2264**
inspector, building safety **2264**
inspector, buildings **2264**
inspector, buildings – electrical wiring **2264**
inspector, buildings – structure **2264**
inspector, bullet and cartridge cases **9498**
inspector, bullets and cartridges **9498**
inspector, bus **7222**
inspector, bus parts **9486**
inspector, buttons **9498**
inspector, camera assembly **9498**
inspector, cameras **9498**
inspector, Canada Mortgage and Housing Corporation (CMHC) **2264**
inspector, canned and bottled foods **9465**
inspector, canoe building **9491**
inspector, cans – metal products manufacturing **9516**
inspector, carbon brushes – electrical equipment manufacturing **9484**
inspector, carbon products **9484**
inspector, carburetor assembly **9486**
inspector, cars – motor vehicle manufacturing **9482**
inspector, cars – railway **7314**
inspector, castings – foundry **9415**
inspector, chains **9516**
inspector, chairs – furniture manufacturing **9492**
inspector, chassis – motor vehicle manufacturing **9482**
inspector, chassis assembly – motor vehicle manufacturing **9482**

inspector, clock and watch assembly **9498**
inspector, clutches **9486**
inspector, CMHC (Canada Mortgage and Housing Corporation) **2264**
inspector, compliance – buildings **2264**
inspector, components – electronic equipment manufacturing **9483**
inspector, construction **2264**
inspector, construction fields **2264**
inspector, contagious animal diseases prevention **2222**
inspector, corks and bottle caps **9498**
inspector, credit agency **1114**
inspector, customs **1228**
inspector, cutlery assembly **9498**
inspector, dam construction **2264**
inspector, dangerous waste **2263**
inspector, ditch construction **2264**
inspector, drug and toilet preparations **9498**
inspector, electric appliance manufacturing **9484**
inspector, electric clock components **9484**
inspector, electric clock parts **9484**
inspector, electric controls **9484**
inspector, electrical appliance assembly **9484**
inspector, electrical appliances **9484**
inspector, electrical control assembly **9484**
inspector, electrical control panel **9485**
inspector, electrical dry battery **9487**
inspector, electrical dry cell **9487**
inspector, electrical energy installation **2264**
inspector, electrical equipment manufacturing **9484**
inspector, electrical household appliances **9484**
inspector, electrical installation **2264**
inspector, electrical light bulbs **9487**
inspector, electrical motor **9485**
inspector, electrical quality assurance – motor vehicle manufacturing **9482**
inspector, electrical safety **2264**
inspector, electrical switchboards and panels **9485**
inspector, electrical switchgear **9485**
inspector, electrical switchgear panel **9485**
inspector, electrical wiring – construction **2264**
inspector, electricity and gas meters **2262**
inspector, electron tube stem assemblies **9483**
inspector, engine accessories **9486**
inspector, engineering department **2262**
inspector, engines – motor vehicle manufacturing **9482**
inspector, environmental health **2263**
inspector, explosive primers **9498**
inspector, farm implements assembly **9486**
inspector, fibreglass **9495**
inspector, film quality **5227**
inspector, filter tip – tobacco processing **9465**
inspector, financial institutions **1114**
inspector, finished assembled vehicle – motor vehicle manufacturing **9482**
inspector, fire safety – non-governmental services **6465**
inspector, firearms machining **7231**
inspector, fish and fish products **2222**
inspector, fisheries **2224**
inspector, flight test **7315**
inspector, flood damages **2263**
inspector, floors – motor vehicle manufacturing **9482**
inspector, fluorescent penetrant **2261**
inspector, food-packaging equipment assembly **9486**
inspector, foundation garments **9454**
inspector, fountain pens **9498**
inspector, fruit and vegetables **2222**
inspector, full tin cans – food and beverage processing **9617**
inspector, furnace electrodes – electrical equipment manufacturing **9484**
inspector, furniture **9492**
inspector, furniture and fixtures – furniture manufacturing **9492**
inspector, furniture and fixtures assembling **9492**
inspector, furniture and fixtures assembly **9492**
inspector, furniture assembly – furniture manufacturing **9492**
inspector, furniture finishing **9492**
inspector, furniture parts **9492**
inspector, garment **9454**
inspector, glass **9415**
inspector, golf balls – rubber products manufacturing **9615**
inspector, golf clubs **9498**
inspector, grain **2222**
inspector, grids – electrical equipment manufacturing **9484**
inspector, ground transit – public transit **7222**
inspector, hazardous waste **2263**
inspector, hazardous waste – environmental health **2263**
inspector, health standards **2263**
inspector, heat treating – metal processing **9415**
inspector, highway construction **2264**
inspector, home construction **2264**
inspector, homes **2264**
inspector, horse plating – racetrack **5253**

inspector, horseshoes **5253**
inspector, hotels and restaurants – public health **2263**
inspector, housing construction **2264**
inspector, housing rehabilitation **2264**
inspector, hull **9491**
inspector, industrial construction safety **2264**
inspector, industrial electric installations **2264**
inspector, industrial hygiene **2263**
inspector, industrial waste control **2263**
inspector, ingots – primary metal processing **9415**
inspector, in-process assembly – automobile assembly **9482**
inspector, irrigation – construction **2264**
inspector, jewellery **9498**
inspector, jewellery assembly **9498**
inspector, knitting **9444**
inspector, kosher – food and beverage processing **9465**
inspector, laminated beams **9493**
inspector, lead acid battery parts **9487**
inspector, leaf springs **9514**
inspector, leather goods **9454**
inspector, light bulbs **9487**
inspector, linoleum **9495**
inspector, livestock **2222**
inspector, loom **9444**
inspector, machine shop **7231**
inspector, machined parts **7231**
inspector, machining **7231**
inspector, machining and tooling **7231**
inspector, maintenance – construction **2264**
inspector, masonry **2264**
inspector, matchbooks **9498**
inspector, matches **9498**
inspector, meat **2222**
inspector, mechanical quality assurance – motor vehicle manufacturing **9482**
inspector, metal furniture **9492**
inspector, metal parts **9514**
inspector, metal processing **9415**
inspector, milk **2222**
inspector, mine construction **2264**
inspector, motor and generator **9485**
inspector, motor vehicle clutch assembly **9486**
inspector, motor vehicle mechanical equipment – motor vehicle manufacturing **9482**
inspector, motorboat assembly **9491**
inspector, motors and chassis – motor vehicle manufacturing **9482**
inspector, moulded plastic **9495**
inspector, munitions **9498**
inspector, munitions manufacturing **9498**
inspector, new passenger cars **9482**
inspector, non-destructive examination **2261**
inspector, nondestructive testing **2261**
inspector, non-destructive testing **2261**
inspector, nursing homes **2263**
inspector, occupational health and safety **2263**
inspector, occupational hygiene **2263**
inspector, occupational safety **2263**
inspector, optical goods **3414**
inspector, optical lenses **3414**
inspector, paint spray **9496**
inspector, paper products **9435**
inspector, pens and pencils **9498**
inspector, pharmaceuticals **2211**
inspector, photographic equipment **9498**
inspector, photographic equipment assembly **9498**
inspector, photographs – photographic processing **9474**
inspector, piano assembly **9498**
inspector, pianos **9498**
inspector, pipeline construction **2264**
inspector, plastic and painted panels – motor vehicle manufacturing **9482**
inspector, plastic products **9495**
inspector, plastic products manufacturing **9495**
inspector, plastics **9495**
inspector, plumbing **2264**
inspector, plywood – wood processing **9436**
inspector, police **0641**
inspector, pollution control **2263**
inspector, pottery and porcelain ware **9415**
inspector, precision instrument assembly **9498**
inspector, pre-stressed concrete **2264**
inspector, printed circuit board (PCB) assembly **9483**
inspector, prints – photographic processing **9474**
inspector, private branch exchange (PBX) – telecommunications **7246**
inspector, product – furniture manufacturing **9492**
inspector, projector assembly **9498**
inspector, propellers – machining **7231**
inspector, public health **2263**
inspector, public works – construction **2264**
inspector, purchased metal parts **9498**
inspector, quality control – wood products manufacturing **9493**
inspector, radiator – motor vehicle manufacturing **9482**
inspector, railway lines **7432**
inspector, refinery equipment **2264**

inspector, refrigeration unit **9484**
inspector, refrigerators – electrical appliance manufacturing **9484**
inspector, reinforced concrete **2264**
inspector, repair and overhaul **7315**
inspector, road construction **2264**
inspector, road grading **2264**
inspector, road paving **2264**
inspector, roller bearing assembly **9498**
inspector, rubber products manufacturing **9423**
inspector, safety razor blades **9498**
inspector, sanding – woodworking **9493**
inspector, sanitary department – environmental health **2263**
inspector, sanitary standards **2263**
inspector, sashes and doors – millwork manufacturing **9493**
inspector, scales **9498**
inspector, seat belt assembly **9498**
inspector, sewage disposal – environmental health **2263**
inspector, sewer construction **2264**
inspector, shakes – wood processing **9436**
inspector, sheet fabricating **9514**
inspector, sheet paper **9433**
inspector, sheet steel – primary metal processing **9415**
inspector, slaughtering and meat processing plant **2222**
inspector, small electrical appliances **9484**
inspector, small transformers **9484**
inspector, snowmobiles **9486**
inspector, soap and toilet goods preparations **9498**
inspector, sofas – furniture manufacturing **9492**
inspector, springs **9516**
inspector, steel – primary metal processing **9415**
inspector, steel sheets – primary metal processing **9415**
inspector, stones – mineral products processing **9415**
inspector, structural ironwork **2264**
inspector, structural steel **2264**
inspector, thermostats – electrical equipment manufacturing **9484**
inspector, tin can **9516**
inspector, tool and cutlery assembly **9498**
inspector, tool and die **7231**
inspector, tool and gauge **7231**
inspector, tooling **7231**
inspector, toolroom **7231**
inspector, toys **9498**
inspector, transit system **7222**
inspector, treated poles – wood processing **9436**
inspector, trim and hardware – motor vehicle manufacturing **9482**
inspector, trimming material **9444**
inspector, tunnel construction **2264**
inspector, ultraviolet light **2261**
inspector, umbrellas **9498**
inspector, veterinary **3114**
inspector, vinyl fabrics **9421**
inspector, wallpaper **9498**
inspector, watch assembly **9498**
inspector, watches **9498**
inspector, water **2263**
inspector, water leaks – motor vehicle manufacturing **9482**
inspector, waterworks construction **2264**
inspector, weights and measures **2262**
inspector, winding – large electric motors manufacturing **9485**
inspector, wiring – domestic installation **2264**
inspector, wiring – industrial installation **2264**
inspector, wood machining **9493**
inspector, wood products – wood products manufacturing **9493**
inspector, wood products assembly **9493**
inspector, wooden boat assembly **9491**
inspector, wooden boats **9491**
inspector, wooden boxes **9493**
inspector, wooden caskets **9493**
inspector, wooden doors **9493**
inspector, wooden sashes and doors **9493**
inspector, wooden shuttles **9493**
inspector, wooden staves **9493**
inspector, zipper manufacturing **9498**
inspector, zippers **9498**
inspector-adjuster, piano actions **9498**
inspector-carman/woman – railway **7314**
inspector-dispatcher, bus **7222**
inspector-grader, fish **2222**
inspector-grader, hockey sticks **9493**
inspector-grader, seconds **9454**
inspector-repairer, heavy equipment **7312**
inspectors and testers foreman/woman – electronic equipment fabrication, assembly, installation and repair **9222**
inspectors, wire products **9415**
inspector-tester, moulded plastic **9495**
inspector-trimmer, moulded rubber products **9423**
installation and repair technician – telecommunications **7246**
installation foreman/woman – telecommunications **7212**

installation manager, telecommunications **0131**
installation mechanic, power plants – aircraft assembly **9481**
installation service technician – cable television **7247**
installation superintendent – telecommunications **0131**
installation technician, cable television **7247**
installation technician, hardware **2282**
installation technician, software **2282**
installation, hydraulic – aircraft assembly **9481**
installer – electronic equipment manufacturing **9483**
installer – telecommunications **7246**
installer and finisher, drywall **7284**
installer and repairer – household and business equipment **2242**
installer and repairer, automatic pinsetting machines **7311**
installer and repairer, automobile accessories – motor vehicle manufacturing **9482**
installer and repairer, automotive electronic accessories – motor vehicle manufacturing **9482**
installer and repairer, electronic music equipment **2242**
installer and repairer, furnaces (except gas) **7331**
installer and repairer, public address (P.A.) systems **2242**
installer and servicer, automatic door systems **7441**
installer and servicer, fire alarm systems **2242**
installer and servicer, residential oil burners **7331**
installer helper – telecommunications **7612**
installer helper, awnings **7611**
installer helper, power cable systems **7612**
installer helper, protective signalling – manufacturing **9619**
installer helper, vanities and kitchen cupboards **7611**
installer, aircraft electronic equipment **2244**
installer, aluminum awning **7441**
installer, aluminum doors **7441**
installer, aluminum siding **7441**
installer, aluminum windows **7441**
installer, antennas – electronic equipment **7441**
installer, automatic door system **7441**
installer, automatic garage door **7441**
installer, automobile radios and accessories – motor vehicle manufacturing **9482**
installer, automotive shock absorbers **7443**
installer, automotive springs **7443**
installer, awnings **7441**
installer, batteries – motor vehicle manufacturing **9482**
installer, boat motors **9491**
installer, clock and watch dial **9498**
installer, curtains **7441**
installer, doors **7441**
installer, drywall interior systems **7284**
installer, ducts – construction **7441**
installer, eavestroughs **7441**
installer, electric appliances **7441**
installer, electric household appliances – residential and commercial equipment **7441**
installer, electrical appliances **7441**
installer, electrical cables – electric power systems **7244**
installer, elevator **7318**
installer, engines – motor vehicle manufacturing **9482**
installer, fence **7441**
installer, fire prevention and automatic suppression systems **7252**
installer, fire protection piping system **7252**
installer, forced air furnace (except gas) **7331**
installer, garage doors **7441**
installer, gas meters **7442**
installer, glass wallcoverings **7292**
installer, glass walls **7292**
installer, hardware – furniture manufacturing **9492**
installer, hot water heaters **7441**
installer, household appliance **7441**
installer, industrial doors **7441**
installer, insulation **7293**
installer, insulation – electrical equipment manufacturing **9484**
installer, interlocking paving stone **7441**
installer, kitchen cabinet **7441**
installer, kitchen cupboards and vanities **7441**
installer, kitchen units **7441**
installer, laboratory furnishings **7441**
installer, lightning rods **7441**
installer, metal hardware – furniture manufacturing **9492**
installer, metal wall framing **7264**
installer, motor and generator coils – industrial electrical equipment **9485**
installer, muffler **7443**
installer, neon signs **7441**
installer, outboard motors **9491**
installer, overhead doors **7441**
installer, permastones **7281**

installer, pool equipment **7441**
installer, radiators – automotive service **7443**
installer, radiators – motor vehicle manufacturing **9482**
installer, recreational equipment **7441**
installer, residential doors **7441**
installer, satellite antennas **7441**
installer, satellite dishes **7441**
installer, satellite receivers **7246**
installer, seats – construction **7611**
installer, security alarms **2242**
installer, septic system **7441**
installer, septic tank **7441**
installer, siding **7441**
installer, signs **7441**
installer, solar heating equipment **7441**
installer, solid fuel heaters **7331**
installer, sprinkler systems **7252**
installer, sprinklers and fire protection systems **7252**
installer, structural glass **7292**
installer, structure seats **7441**
installer, swimming pool **7441**
installer, swimming pool filters and heaters **7441**
installer, switch network **7246**
installer, teleprinters **7246**
installer, teletypewriter (TTY) – telecommunications **7246**
installer, teletypewriters (TTY) **7246**
installer, television antennas **7441**
installer, traffic lights **7441**
installer, transmissions – motor vehicle manufacturing **9482**
installer, TTY (teletypewriter) – telecommunications **7246**
installer, venetian blinds **7441**
installer, vinyl pools **7441**
installer, vinyl roofs – motor vehicle manufacturing **9482**
installer, water heaters **7441**
installer, water meter **7442**
installer, water-softening systems **7441**
installer, weather strips **7441**
installer, wheels and tires – automobile assembly **9482**
installer, window shades **7441**
installer, windows **7441**
installer, wood burners **7331**
installer, wooden panels **7441**
installer, wooden window sash **7441**
installer-fitter, outboard motors **9491**
installer-repairer, billiard and bowling equipment **7445**
installers and repairers foreman/woman – telecommunications **7212**
installer-servicer, travel trailers **7441**
instalment collector **1435**
instant coffee dryer **9461**
instant coffee extractor operator **9461**
instant powdered foods equipment operator **9461**
institution guard – correctional service **6462**
institutional aide **3413**
institutional cook **6242**
institutional food services sales representative **6411**
instructor – business college **4131**
instructor – commercial college **4131**
instructor – language school **4131**
instructor – vocational school **4131**
instructor for persons who are intellectually impaired **4215**
instructor for persons with an intellectual disability **4215**
instructor of persons who are blind **4215**
instructor of persons who are hearing impaired **4215**
instructor of persons with a visual impairment **4215**
instructor of persons with developmental disabilities **4215**
instructor of persons with disabilities **4215**
instructor of persons with physical disabilities **4215**
instructor, aerobics **5254**
instructor, arts and crafts **5254**
instructor, athletics **5254**
instructor, auto-driving **4216**
instructor, beauty and charm **4216**
instructor, beauty culture school **4216**
instructor, bowling **5254**
instructor, Braille **4215**
instructor, bridge **5254**
instructor, callisthenics **5254**
instructor, cardiovascular perfusion **3214**
instructor, charm course **4216**
instructor, college of applied arts and technology **4131**
instructor, communication disorders **3235**
instructor, correspondence school **4131**
instructor, crafts (except education) **5244**
instructor, diagnostic medical sonography **3216**
instructor, dressage **5254**
instructor, fencing **5254**

instructor, firefighters **4131**
instructor, firefighting **4131**
instructor, fitness **5254**
instructor, flight attendants **4131**
instructor, golf **5254**
instructor, gourmet cooking – non-vocational **4216**
instructor, ground school **4131**
instructor, gymnastics **5254**
instructor, health and safety **4131**
instructor, heavy equipment operators **4131**
instructor, horseback riding **5254**
instructor, ice-skating **5254**
instructor, industrial safety **4131**
instructor, judo **5254**
instructor, jujitsu **5254**
instructor, karate **5254**
instructor, life skills **4212**
instructor, luge **5252**
instructor, martial arts **5254**
instructor, modelling and finishing school **4216**
instructor, motorcycle driving **4216**
instructor, orientation and mobility **4215**
instructor, orientation and mobility of persons who are blind **4215**
instructor, physical education and recreation – military **5254**
instructor, physical training **5254**
instructor, police **4131**
instructor, pursers **4131**
instructor, recreation **5254**
instructor, rehabilitation **4215**
instructor, riding **5254**
instructor, rollerblading **5254**
instructor, roller-skating **5254**
instructor, self-improvement course **4216**
instructor, sewing – non-vocational **4216**
instructor, sign language **4215**
instructor, ski **5254**
instructor, ski – sports and recreation **5254**
instructor, small boat navigation **4216**
instructor, sports **5254**
instructor, swimming – recreation **5254**
instructor, swimming – sports **5254**
instructor, tai-chi **5254**
instructor, tennis – recreation **5254**
instructor, tennis – sports **5254**
instructor, track and field **5254**
instructor, weightlifting **5254**
instructor, yoga **5254**
instrument cluster assembler – motor vehicle manufacturing **9482**
instrument electrical-technician – military **2244**
instrument inspector and tester – avionics **2244**
instrument inspector, aircraft **2244**
instrument maintenance mechanic **2243**
instrument man/woman – surveying **2254**
instrument mechanic – avionics **2244**
instrument mechanic – utilities **2243**
instrument overhaul and repair mechanic – avionics **2244**
instrument overhaul technician – avionics **2244**
instrument panel assembler – automobile assembly **9482**
instrument panel electrical tester – motor vehicle manufacturing **9482**
instrument shop inspector – avionics **2244**
instrument sterilizer – medical **3414**
instrument technician, aircraft **2244**
instrument technician, industrial **2243**
instrumental music teacher – private, conservatory or studio lessons **5133**
instrumental musician **5133**
instrumentalist **5133**
instrumentation and control engineer **2133**
instrumentation and electrical technician, industrial **2243**
instrumentation engineer **2133**
instrumentation technician, industrial **2243**
instruments and accessories inspector – avionics **2244**
insulating contractor **7219**
insulating panel maker **9517**
insulating tube winder **9517**
insulation applicator **7293**
insulation batt cutter operator **9517**
insulation blanket maker **9498**
insulation blower **7611**
insulation blower helper **7611**
insulation blower operator **7611**
insulation board press tender **9434**
insulation contractor **7219**
insulation cutter and former – electrical equipment manufacturing **9484**
insulation foreman/woman **7219**
insulation installer **7293**
insulation installer – electrical equipment manufacturing **9484**
insulation machine operator **9516**
insulation mat machine operator – stone products **9414**
insulation mechanic **7293**
insulation packer – mineral products manufacturing **9611**

insulation packer – rubber products manufacturing **9615**
insulation salesperson – wholesale **6411**
insulation specialists foreman/woman **7219**
insulation supervisor **7219**
insulator **7293**
insulator apprentice **7293**
insulator builder – clay products **9414**
insulator builder, clay – clay products **9414**
insulator helper **7611**
insulator tester **9619**
insulator, cables **9516**
insulator, heat and frost **7293**
insulators foreman/woman **7219**
insurance actuary **2161**
insurance adjuster **1233**
insurance agent **6231**
insurance appraiser **1235**
insurance benefits executive director **0121**
insurance broker **6231**
insurance claims service manager **0121**
insurance clerk – financial sector **1434**
insurance company general manager **0013**
insurance inspector **1233**
insurance law clerk **4211**
insurance lawyer **4112**
insurance legal assistant **4211**
insurance loss prevention inspector **2262**
insurance manager **0121**
insurance managing director **0121**
insurance paralegal **4211**
insurance policy reviewer **1434**
insurance premium collector **1435**
insurance rater **1434**
insurance rating analyst **1234**
insurance regional manager **0121**
insurance reviewer **1434**
insurance sales agent **6231**
insurance sales district manager **0121**
insurance sales manager **0121**
insurance sales representative **6231**
insurance sales supervisor **6231**
insurance salesman/woman **6231**
insurance underwriter **1234**
intaglio printer – printing **7381**
intaglio printing press operator **7381**
integrated circuit (IC) fabrication supervisor – electronic equipment manufacturing **9222**
integrated circuit assembler **9483**
integrated logistics manager **0713**
integrator operator **9613**
intellectual-property lawyer **4112**
intelligence equipment operator – military **6464**
intelligence officer (management) – military **0643**
intensive care nurse **3152**
intensive care unit (ICU) nurse **3152**
interactive media consultant **2171**
interactive media designer **5241**
interactive media developer **2174**
interactive media programmer **2174**
interactive media writer **5121**
interbanking arrangements officer **1114**
interest clerk **1434**
interface ergonomist **4161**
intergovernmental affairs chief **0414**
intergovernmental affairs director **0414**
intergovernmental affairs officer **4168**
intergovernmental relations chief **0414**
intergovernmental relations director **0414**
interior and exterior wall erector helper **7611**
interior decorating consultant – retail **6421**
interior decorator – retail **6421**
interior design project manager **5242**
interior design teacher – college or vocational institute **4131**
interior design technician **5242**
interior designer **5242**
interior designer assistant **5242**
interior drywall installer **7284**
interior finish carpenter **7271**
interior finish joiner **7271**
interior finisher helper **7611**
interior finishing assembler – automobile assembly **9482**
interior plantscape specialist **2225**
interior plantscaper **8432**
interior plantscaping contractor **8255**
interior space designer **5242**
interior systems carpenter **7271**
interior systems installer, drywall **7284**
interior systems mechanic **7284**
interior trailer finisher **9486**
interior trim assembler – automobile assembly **9482**
interior trimmer carpenter **7271**
interlibrary loan clerk **1451**
interline accounts clerk **1431**
interlocking cabin switcher – railway yard **7431**
interlocking paving stone contractor **7219**
interlocking signal box switcher – railway yard **7431**
interlocking stone installer **7441**
intermediate accountant **1111**
intermediate underwriter – insurance **1234**

intern **3112**
intern psychologist **4151**
intern, general practice **3112**
internal audit manager **0111**
internal audit project manager **1111**
internal audit services manager **0111**
internal audit supervisor – finances **1111**
internal auditor – finances **1111**
internal auditors supervisor – finances **1111**
internal combustion engine assembler **9486**
internal combustion engineer **2132**
internal medicine specialist **3111**
international aid and development project officer **4164**
international aid and development researcher **4164**
international banking manager **0122**
international banking operations vice-president **0013**
international development and assistance researcher **4163**
international exchange operator – telephone system **1424**
international marketing specialist **4163**
international program director – cooperative **0314**
international relations chief – government **0414**
international relations director – government **0414**
international relations specialist **4164**
international service announcer-producer **5231**
international student adviser **4143**
international trade economist **4162**
international trade policy assistant director – government services **0412**
international trade policy manager – government services **0412**
international traffic manager **0713**
internet communications manager **0611**
internet graphic designer **5241**
internet security analyst **2171**
internet site designer **2175**
internet site developer **2175**
internet site manager **0611**
internet systems administrator **0213**
internet web site technician **2281**
internist **3111**
internist, veterinary **3114**
interpretative dancer **5134**
interpretative naturalist **2121**
interpreter **5125**
interpreter for the deaf **5125**
interpreter, adventure site **6441**
interpreter, historic site **5212**
interpreter, industrial site **6441**
interpreter, museum **5212**
interpreter, sign language **5125**
interpreting machine operator – data entry **1422**
interprovincial relations chief **0414**
Intertype machine operator **1423**
Intertype operator **1423**
interview clerk **1454**
interviewer – human resources **1223**
interviewer – survey or poll **1454**
intranet site designer **2175**
intranet site developer **2175**
intra-oral dental assistant **3411**
Inuit art sculptor **5136**
inventory analyst **1474**
inventory clerk **1474**
inventory clerks supervisor **1215**
inventory control clerk **1474**
inventory control manager **0114**
inventory control officer, base – military **0114**
inventory control supervisor **1215**
inventory control technician **2233**
inventory management officer **1215**
inventory manager **0114**
inventory planner **1474**
invertebrate zoologist **2121**
invertebrate zoology curator **5112**
invertebrate zoology museum curator **5112**
investigations officer – postal service **6465**
investigative inspector – police **0641**
investigative reporter **5123**
investigator – police **6261**
investigator, bill complaints **1453**
investigator, business establishment **6465**
investigator, private **6465**
investigator, railway – police **6261**
investigator, taxation **1228**
investment adviser, corporate **1112**
investment advisor – personal finances **1114**
investment analyst **1112**
investment broker **1113**
investment caster – foundry **9412**
investment clerk **1431**
investment consultant **1112**
investment counsellor – personal finances **1114**
investment dealer **1113**
investment director – financial brokerage **0121**
investment economist **4162**
investment manager – bank or trust company **0122**

investment manager – banking, credit and investment **0122**
investment manager – financial brokerage **0121**
investment representative **1113**
investments research director **0111**
investors relations secretary **1241**
invoice and purchase order checker **1474**
invoice clerk **1431**
invoice control clerk **1474**
ion exchange operator **9231**
iridologist **3232**
Irish moss gatherer **8613**
iron brazer **7265**
iron caster – foundry **9412**
iron moulder – foundry **9412**
iron pellet hardness tester – metal processing **9415**
iron structure erector **7264**
ironer – laundry and dry cleaning **6682**
ironer glazer, furs – laundry and dry cleaning **6682**
ironwork contractor **7214**
ironworker **7264**
ironworker – ornamental **7264**
ironworker – reinforcing rebar **7264**
ironworker apprentice **7264**
ironworker generalist **7264**
ironworker helper **7611**
ironworker metal building systems erector **7264**
ironworker, bridge construction **7264**
ironworker, curtain wall installation **7264**
ironworker, metal tank erecting **7264**
ironworker, metal wall framing **7264**
ironworker, metal wall installation **7264**
ironworker, reinforcing steel **7264**
ironworker, steel door settings **7264**
ironworkers foreman/woman **7214**
irrigation and drainage engineer **2131**
irrigation district manager **0912**
irrigation engineer **2131**
irrigation inspector – construction **2264**
irrigation specialist **2123**
irrigation supervisor – agriculture **8253**
irrigation worker **8431**
irrigator sprinkler system **8431**
irrigator wheel line system **8431**
irrigator, rows **8431**
ISO consultant **1122**
IT (information technology) business analyst **2171**
IT (information technology) consultant **2171**
IT (information technology) consulting account manager **2171**
IT (information technology) development manager **0213**
IT (information technology) integration manager **0213**
Italian teacher – secondary school **4141**
ITH (in-the-hole) driller **8231**

J

jack ladder tender **9614**
jack leg drill operator – underground mining **8231**
jack lift operator **7452**
jack operator – underground mining **8411**
jacket designer **5243**
jacket manufacturing inspector **9454**
jackhammer operator – construction **7611**
jacquard card cutter – textiles **9442**
jacquard card lacer – textiles **9442**
jacquard card-cutting machine operator – textiles **9442**
jacquard card-lacing machine operator – textiles **9442**
jacquard loom fixer – textile manufacturing **7317**
jacquard loom heddles tier **9442**
jacquard loom knitter **9442**
jacquard loom pattern changer **9442**
jacquard loom setter – textile manufacturing **7317**
jacquard loom weaver **9442**
jacquard machine knitter **9442**
jacquard machine operator **9442**
jail guard **6462**
jailer **6462**
jam and jelly processing foreman/woman **9213**
jam processor operator **9461**
janitor **6663**
janitorial services manager **0651**
janitorial services sales representative **6411**
Java programmer **2174**
javelin thrower **5251**
J-bar attendant **6671**
J-bar operator **6671**
jersey knitter **9442**
jewel setter **7344**
jeweller **7344**
jewellery annealer **9517**
jewellery appraiser **7344**
jewellery artisan, hand **5244**
jewellery assembler **9498**
jewellery assembly inspector **9498**
jewellery case assembler **9498**

jewellery chaser **7344**
jewellery cleaner **9517**
jewellery designer **5243**
jewellery die sinker **7232**
jewellery engraver **5244**
jewellery filer **9498**
jewellery hammersmith **7344**
jewellery inspector **9498**
jewellery manufacturing foreman/woman **9227**
jewellery model maker **7344**
jewellery moulder **7344**
jewellery parts assembler **9498**
jewellery pickler and dipper **9619**
jewellery polisher **9498**
jewellery repairer **7344**
jewellery repairing foreman/woman – manufacturing **9227**
jewellery repairman/woman **7344**
jewellery riveter **9498**
jewellery salesperson – retail **6421**
jewellery sample maker **7344**
jewellery solderer **9498**
jewellery store manager **0621**
jewellery strip roller **9517**
jewellery turner **9498**
jewellery wire finisher **9517**
jewellery-soldering machine tender **9517**
jib crane operator **7371**
jig and form maker **7232**
jig and template maker, aircraft **7232**
jig and tool maker, aircraft **7232**
jig builder – wood products manufacturing **7272**
jig grinder set-up operator **9511**
jig maker – die casting and plastic moulding **7232**
jig maker – metal products manufacturing **7232**
jig operator – textile manufacturing **9443**
jig welder-fitter **7265**
jig-bore tool maker **7232**
jigger operator – clay products **9414**
jigger operator – textile manufacturing **9443**
jigger operator helper – mineral products processing **9611**
jigger operator, automatic – clay products **9414**
jigger operator, supermarket **7452**
jiggerman/woman – clay products **9414**
jigsaw operator – woodworking **9513**
jitney driver – material handling **7452**
job analyst **1121**
job and wage analyst **1121**
job classification system analyst **1121**
job coach for persons with disabilities **4215**
job compositor – typesetting **1423**
job counsellor **4213**
job counsellor – government services **4213**
job creation and employment services evaluation officer **4164**
job evaluation analyst **1121**
job evaluation and salary research manager **0112**
job evaluation supervisor **1121**
job evaluator **1121**
job moulder – foundry **9412**
job order clerks supervisor – manufacturing **1215**
job printer **7381**
job search trainer **4213**
job training director – government services **0411**
jobbing coremaker **9412**
jobbing moulder **9412**
jockey **5251**
jockey helper **6671**
jockey room custodian **6671**
jockey valet **6671**
jockey, car **6683**
jockey, garbage **6683**
jogger – printing **9619**
joiner helper – construction **7611**
joiner sewing machine operator **9451**
joiner, railway rolling stock **7271**
joint sawyer – concrete, clay and stone products **9414**
jointer – woodworking **9513**
jointer machine tender, panels – woodworking **9513**
jointer operator – woodworking **9513**
jointer tender – wood processing **9434**
jointer, staves – woodworking **9513**
jointer, veneer – wood processing **9434**
jointing machine operator – woodworking **9513**
jollier – clay products **9414**
journal box greaser – railway yard **7431**
journal editor **5122**
journal entry audit clerk **1431**
journal entry clerk **1431**
journalism professor – university **4121**
journalism teacher – college **4131**
journalist **5123**
journeyman/woman boilermaker **7262**
journeyman/woman bricklayer **7281**
journeyman/woman brickmason **7281**
journeyman/woman cabinetmaker **7272**
journeyman/woman carpenter **7271**
journeyman/woman cement finisher **7282**
journeyman/woman construction electrician **7241**
journeyman/woman cook **6242**
journeyman/woman drywall installer **7284**

journeyman/woman elevator constructor **7318**
journeyman/woman elevator mechanic **7318**
journeyman/woman floor covering installer **7295**
journeyman/woman floor mechanic **7295**
journeyman/woman gas fitter **7253**
journeyman/woman glazier **7292**
journeyman/woman heavy-duty equipment mechanic **7312**
journeyman/woman industrial electrician **7242**
journeyman/woman industrial mechanic **7311**
journeyman/woman insulator **7293**
journeyman/woman ironworker **7264**
journeyman/woman lather **7284**
journeyman/woman lineman/woman – telecommunications **7245**
journeyman/woman machinist **7231**
journeyman/woman mason **7281**
journeyman/woman motor vehicle body repairer **7322**
journeyman/woman painter and decorator **7294**
journeyman/woman pipefitter **7252**
journeyman/woman plasterer **7284**
journeyman/woman plumber **7251**
journeyman/woman refrigeration and air conditioning mechanic **7313**
journeyman/woman reinforcing-iron worker **7264**
journeyman/woman roofer **7291**
journeyman/woman sheet metal worker **7261**
journeyman/woman sprinkler system installer **7252**
journeyman/woman steamfitter-pipefitter **7252**
journeyman/woman stonemason **7281**
journeyman/woman tilesetter **7283**
journeyman/woman tool and die maker **7232**
journeyman/woman water well driller **7373**
journeyman/woman welder **7265**
judge – law **4111**
judge, administrative tribunal – government services **0411**
judge, athletics **5253**
judge, competitive sports **5253**
judge, figure-skating **5253**
judge, goals **5253**
judge, paddock – racetrack **5253**
judge, patrol – racetrack **5253**
judge, racehorses – racetrack **5253**
judge, sport competitions **5253**
judge, sports **5253**
judge, standardbreds – racetrack **5253**
judge, track **5253**
judge, track and field **5253**
judicial administrator **1227**
judicial assistant – Supreme Court **4112**
judicial clerk **1443**
judicial court administrator **1227**
judicial officer **1227**
judicial officer – courts **1227**
judicial services administrator **1227**
judo instructor **5254**
judoka **5251**
juggler **5232**
juice blender **9617**
jujitsu instructor **5254**
juke box mechanic **7445**
jumbo casting operator – zinc melting **9411**
jumbo drill operator **8231**
jumbo drill operator – underground mining **8231**
jumbo drill operator helper – underground mining **8411**
jumbo operator – sawmill **9431**
jumbo operator helper – underground mining **8411**
jumper **5251**
junction maker – concrete, clay and stone products **9414**
junior baker **6252**
junior billing clerk **1431**
junior engineer – water transport **2274**
junior estimator – construction **2234**
junior financial analyst **1112**
junior foreman/woman – mining **8221**
junior high school teacher **4141**
junior hockey coach **5252**
junior invoice clerk **1431**
junior mate, ship **2273**
junior mechanic, aircraft mechanical systems **7315**
junior office clerk **1411**
junior underwriter – insurance **1234**
junior-kindergarten educator assistant **4214**
jurilinguist translator **5125**
justice **4111**
justice of the peace **1227**
juvenile court judge **4111**

K

karate instructor **5254**
keeper grounds **8612**
keg builder, wood **9493**
keg maker, wood **9493**
kennel attendant **6483**
kennel keeper **6483**
kennel manager **0651**

kennel operator **8251**
kennelman/woman **6483**
keno dealer **6443**
keno runner, casino **6443**
keno writer **6443**
ketchup maker **9461**
kettle charger **9411**
kettle operator – chemical processing **9421**
kettle tender – chemical processing **9421**
kettle tender – primary metal processing **9411**
kettle tender – textile manufacturing **9443**
kettleman/woman – food processing **9461**
key accounts manager – sales **0611**
key dresser **5226**
key grip **5226**
key tape operator **1422**
keyboard operator – typesetting **1423**
keyboardist **5133**
keypunch operator **1422**
keyseater operator **9511**
keyseater set-up operator **9511**
keyseating machine operator **9511**
kickboxing trainer **5252**
kidney dialysis technician **3219**
kidney dialysis technologist **3219**
kier-boiler tender – textile manufacturing **9443**
kiln cleaner – primary metal and mineral products processing **9611**
kiln door builder – mineral products processing **9611**
kiln fireman/woman – clay products **9414**
kiln labourer – primary metal and mineral products processing **9611**
kiln operator helper – mineral products manufacturing **9611**
kiln operator, bricks – clay products **9414**
kiln operator, decorating – clay products **9414**
kiln operator, glost – clay products **9414**
kiln operator, malt house – food and beverage processing **9461**
kiln operator, periodic – clay products **9414**
kiln operator, tunnel – clay products **9414**
kiln workers foreman/woman – clay products **9211**
kilnman/woman – clay products **9414**
kilnman/woman, bricks – clay products **9414**
kilnman/woman, decorated products – clay products **9414**
kilnman/woman, glazed products – clay products **9414**
kilnman/woman, periodic – clay products **9414**
kilnman/woman, tunnel – clay products **9414**
kiln-recaust operator – pulp and paper **9432**
kiln-transfer operator **9434**
kinanthropologist **4167**
kindergarten educator assistant **4214**
kindergarten teacher **4142**
kinesiologist – sports and leisure **4167**
kinesitherapist **3235**
kiosk information clerk **1453**
kiosk sales clerk **6421**
kitchen cabinet installer **7441**
kitchen cupboard and vanity installer **7441**
kitchen designer **5242**
kitchen helper **6641**
kitchen unit installer **7441**
knife assembler **9498**
knife blade polisher **9516**
knife inspector **9498**
knitted fabric inspector **9444**
knitted fabric turner **9616**
knitter **9442**
knitter helper **9616**
knitter helper, machine **9616**
knitter, gloves **9442**
knitter, hand **5244**
knitter, hosiery **9442**
knitter, jersey **9442**
knitter, link machine **9442**
knitter, ribs – textiles **9442**
knitter, samples **9442**
knitter, seamless hosiery **9442**
knitter, sock feet **9442**
knitter, socks – textiles **9442**
knitter, surgical pads **9442**
knitter, wire mesh **9516**
knitting area patroller – textiles **9442**
knitting foreman/woman **9216**
knitting inspector **9444**
knitting machine adjuster – textile manufacturing **7317**
knitting machine fixer – textile manufacturing **7317**
knitting machine mechanic **7317**
knitting machine operator **9442**
knitting machine setter – textile manufacturing **7317**
knitting machine tender **9442**
knitting mender, machine **9442**
knitting pattern setter – textile manufacturing **7317**
knitting supervisor – textile processing **9216**
knotting machine operator – textiles **9442**
knurling machine feeder **9516**

knurling machine operator, pen and pencil **9517**
kosher foods cook **6242**
kosher inspector – food and beverage processing **9465**

L

L.P.N. (licensed practical nurse) **3233**
lab attendant, wafer fabrication – electronic equipment manufacturing **9483**
lab technician, EMG (electromyography) **3218**
label brander **9619**
label coder – food and beverage processing **9617**
label cutter – paper converting **9435**
label heat tacker **9619**
label operator – papermaking **9433**
label printer **9471**
label-cutting machine tender **9517**
laboratory animal attendant **6483**
laboratory animal care worker **6483**
laboratory animal technician **3213**
laboratory animal technologist **3213**
laboratory animal veterinarian **3114**
laboratory assistant – applied chemistry **2211**
laboratory assistant – medical **3212**
laboratory assistant, college **4122**
laboratory assistant, university **4122**
laboratory chemist **2112**
laboratory clerk **1473**
laboratory demonstrator – postsecondary **4122**
laboratory director **0212**
laboratory equipment cleaner **6662**
laboratory equipment installer **7441**
laboratory facilities cleaner **6662**
laboratory furnishings installer **7441**
laboratory immunologist **2121**
laboratory manager **0212**
laboratory medicine, chief of **0311**
laboratory medicine, director of **0311**
laboratory technician – medical **3212**
laboratory technician – metallurgy **2212**
laboratory technician, chemical **2211**
laboratory technician, ophthalmic – retail **3414**
laboratory technician, optical – retail **3414**
laboratory technician, veterinary **3213**
laboratory technologist, chemical **2211**
laboratory technology professor – university **4121**
laboratory tester **2211**
laboratory tester – pulp and paper **2211**
laboratory tester, chemical processing **2211**
labour adjudicator **1121**
labour affairs officer – labour policy **4164**
labour affairs officer – occupational health and safety **2263**
labour demand analysis chief – government services **0411**
labour economist **4162**
labour force consultant **1223**
labour force planning consultant – health sector **4165**
labour foreman/woman, excavating and grading **7217**
labour gang foreman/woman, asphalt paving **7217**
labour gang foreman/woman, concrete paving **7217**
labour law clerk **4211**
labour law legal assistant **4211**
labour law paralegal **4211**
labour lawyer **4112**
labour market analysis director – government services **0412**
labour market analyst **4164**
labour market information analyst **4162**
labour market information consultant **4213**
labour market information officer **4164**
labour market policy officer **4164**
labour mobility policy consultant **4164**
labour organization agent **1121**
labour organization business agent **1121**
labour organization business representative **1121**
labour organization liaison officer **1121**
labour organization manager **0314**
labour organization negotiator **1121**
labour organization president **0014**
labour organizer **1121**
labour policy analyst **4164**
labour policy officer **4164**
labour regional director – government services **0411**
labour relations board officer **1121**
labour relations clerk **1442**
labour relations consultant **1121**
labour relations co-ordinator **1121**
labour relations director **0112**
labour relations manager **0112**
labour relations officer **1121**
labour relations returning officer **1121**
labour relations specialist **1121**
labour standards analyst **4164**
labour standards officer **2263**
labour standards officer – occupational health and safety **2263**
labour union business agent **1121**
labour union liaison officer **1121**

labourer – chemical processing **9613**
labourer – food and beverage processing **9617**
labourer – gas utility **9613**
labourer – material handling **7452**
labourer – metal fabrication **9612**
labourer – metallurgy **9611**
labourer – mineral and metal processing **9611**
labourer – packaging **9619**
labourer – packaging company **9619**
labourer – plastic products manufacturing **9615**
labourer – primary metal and mineral products processing **9611**
labourer – printing **9619**
labourer – pulp and paper **9614**
labourer – rubber products manufacturing **9615**
labourer – sanitary service **7621**
labourer – shellfish processing **9618**
labourer – shoe manufacturing **9619**
labourer – tannery **9619**
labourer – textile processing **9616**
labourer – warehousing and storage **7452**
labourer – wood processing **9614**
labourer crew leader – public works **7621**
labourer, asphalt plant – construction **7611**
labourer, ball mill – mineral products processing **9611**
labourer, bindery **9619**
labourer, bituminous paving **7611**
labourer, boat assembly **9619**
labourer, box factory **9619**
labourer, candle manufacturing **9619**
labourer, cannery – fish processing **9618**
labourer, cattle ranch **8431**
labourer, cemetery **8612**
labourer, chemical plant **9613**
labourer, concrete paving **7611**
labourer, construction **7611**
labourer, cooperage **9619**
labourer, core room – foundry **9611**
labourer, core shop – foundry **9611**
labourer, dairy farm **8431**
labourer, dipping **9619**
labourer, earthworks – construction **7611**
labourer, egg grading station **8431**
labourer, electric power and wire communications **7612**
labourer, electrical appliance manufacturing **9619**
labourer, electrical products manufacturing **9619**
labourer, excavation **7611**
labourer, factory – manufacturing **9619**
labourer, farm **8431**
labourer, felt goods **9616**
labourer, field and vegetable crops **8431**
labourer, fish-processing plant **9618**
labourer, flue dust – primary metal and mineral products processing **9611**
labourer, footwear manufacturing **9619**
labourer, forestry **8616**
labourer, foundry **9611**
labourer, fruit farming **8431**
labourer, fur ranch **8431**
labourer, furniture manufacturing **9619**
labourer, furrier shop **9619**
labourer, garment factory **9619**
labourer, garment plant **9619**
labourer, general – electrical equipment assembly **9619**
labourer, general – manufacturing **9619**
labourer, golf course **8612**
labourer, grain farm **8431**
labourer, grounds maintenance **8612**
labourer, hide and pelt processing **9619**
labourer, kiln – primary metal and mineral products processing **9611**
labourer, landscape **8612**
labourer, laundry **6681**
labourer, leather processing **9619**
labourer, livestock **8431**
labourer, logging **8616**
labourer, logging and forestry **8616**
labourer, meat-packing plant **9617**
labourer, metal polishing-plating **9612**
labourer, mill – mineral products processing **9611**
labourer, mine **8614**
labourer, oil field **8615**
labourer, ore processing **9611**
labourer, packaging **9619**
labourer, packaging company **9619**
labourer, padding **9619**
labourer, paint plant **9613**
labourer, paper converting **9614**
labourer, park maintenance **8612**
labourer, paving operations **7611**
labourer, petroleum refinery **9613**
labourer, pipeline **7611**
labourer, plastic products manufacturing **9615**
labourer, plywood and veneer plant **9614**
labourer, poultry farming **8431**
labourer, primary metal processing **9611**
labourer, quarry **7611**
labourer, refinery **9611**
labourer, rolling mill – primary metal processing **9611**
labourer, salt screening **9611**

labourer, sawmill **9614**
labourer, section – railway **7622**
labourer, shipyard **9619**
labourer, shoe manufacturing **9619**
labourer, shore dredging **7611**
labourer, smelter **9611**
labourer, sod laying **8612**
labourer, steel plant **9611**
labourer, syrup-processing plant **9617**
labourer, tailings disposal – primary metal processing **9611**
labourer, tobacco processing **9617**
labourer, wood-preserving plant **9614**
labourer, woollen mill **9616**
labourer, yard – railway transport **7622**
labourer, yeast-processing plant **9617**
labourers and other elemental workers foreman/woman – construction **7217**
labourers foreman/woman – primary metal and mineral products processing **9211**
lace weaver **9442**
lace weaver – arts and crafts **5244**
lacer – footwear manufacturing **9619**
lacer – sporting goods manufacturing **9619**
lacer, lacrosse stick **9498**
lacquer maker **9421**
lacquer sprayer, bench **9496**
lacquer-sprayer **9496**
lacquer-sprayer, products **9496**
lacrosse coach **5252**
lacrosse scout **5252**
lacrosse stick bender – woodworking **9513**
lacrosse stick gouger – woodworking **9513**
lacrosse stick lacer **9498**
lacrosse stick maker – woodworking **9513**
lacrosse stick planer – woodworking **9513**
lacrosse stick shaper – woodworking **9513**
lacrosse team coach **5252**
ladder assembler, wood **9493**
ladder builder, wood **9493**
ladle crane operator **7371**
ladle operator – primary metal processing **9411**
ladle pourer – primary metal processing **9411**
lag bolt machine tender – woodworking **9513**
lag bolter operator – railway **7432**
lamb feedlot worker **8431**
lamb grader **9465**
laminated asbestos products inspector **9415**
laminated beam inspector **9493**
laminated bowl machine tender – woodworking **9513**
laminated core assembler – industrial electrical equipment **9485**
laminating foreman/woman – furniture and fixtures manufacturing **9224**
laminating machine operator – paper mill **9433**
laminating machine operator – printing **9473**
laminating machine operator – rubber products manufacturing **9423**
laminating machine tender – paper converting **9435**
laminating machine tender – plastic manufacturing **9422**
laminating machine tender – rubber products manufacturing **9423**
laminating press tender – woodworking **9513**
lamination stacker – industrial electrical equipment **9485**
lamination-stacking machine tender – electrical equipment manufacturing **9487**
laminator, boat assembly **9491**
laminator, hand – furniture manufacturing **9492**
laminator, moulds – plastic manufacturing **9495**
laminator, plastics – plastic manufacturing **9495**
laminator, plastics – wood furniture manufacturing **9513**
laminator, television picture tubes **9483**
lamp filament processor **9487**
lamp keeper – underground mining **8411**
lampshade assembler **9498**
lampshade frame maker, wire **9516**
lampshade maker **9498**
lampshade sewer **9498**
LAN (local area network) administrator **2281**
LAN (local area network) manager **2281**
LAN (local area network) operator **2281**
LAN (local area network) technician **2281**
land drainage engineer **2131**
land electrical and mechanical engineering officer – military **2133**
land information system (LIS) technician **2255**
land information system (LIS) technologist **2255**
land negotiator **1225**
land ordnance engineer – military **2132**
land registrar **1227**
land survey supervisor **2154**
land survey technician **2254**
land survey technologist **2254**
land surveying party chief **2154**
land surveyor **2154**
land titles clerk **4211**
land titles examiner **4211**
land use economist **4162**

land use planner **2153**
land use specialist **2153**
land use technician **2231**
land weapons technician – military **6464**
land-based seal hunter **8442**
land-based sealer **8442**
landfill scale operator **9613**
landfill weigh scale attendant **9613**
landing bucker – logging **8421**
landingman/woman – logging **8421**
landlord/lady **1224**
landman/woman – oil and gas **1225**
landscape architect **2152**
landscape architectural technician **2225**
landscape architectural technologist **2225**
landscape architecture manager **0212**
landscape artist, murals **5136**
landscape design contractor **8255**
landscape designer **2225**
landscape gardener **2225**
landscape gardener helper **8612**
landscape gardening helper **8612**
landscape labourer **8612**
landscape maintenance contractor **8255**
landscape painter **5136**
landscape planner **2152**
landscape service contractor **8255**
landscape technician **2225**
landscape worker **8612**
landscaper **2225**
landscaping contractor **8255**
landscaping foreman/woman **8256**
landscaping instructor – college **4131**
landscaping manager **8255**
language assessor – education **4166**
language instructor – language school **4131**
language laboratory teacher **4131**
language professor – university **4121**
language teacher – elementary school **4142**
language training director **0112**
languages co-ordinator – education **4166**
langue des signes québécoise (LSQ) interpreter **5125**
lap machine tender – textile manufacturing **9441**
lapidary **7344**
lapper – textile manufacturing **9441**
lapper tender – textile manufacturing **9441**
lapper, hand – metal machining **9511**
lapper, transformer cores **9485**
lapper, wallpaper **9435**
lapper, wallpaper – paper converting **9435**
lapping machine operator **9511**
lapping machine set-up operator **9511**
lapping machine tender **9511**
lap-winder tender – textile manufacturing **9441**
lard bleacher – food and beverage processing **9617**
lard renderer – food and beverage processing **9461**
large electrical appliance assembly lead hand **9484**
large power transformer coil winder **9485**
large surface spray painter **9496**
large transformer coil winder **9485**
larry car operator **9411**
laryngologist **3111**
laser assembler – electronic equipment manufacturing **9483**
laser beam colour scanner operator **9472**
laser beam machine-welder operator **7265**
laser beam welder **7265**
laser beam welding machine operator **7265**
laser cutter – metal fabrication **9514**
laser printer operator **9471**
laser technician **2241**
laser welding operator **7265**
laser-trimmer operator – electronic equipment manufacturing **9483**
last ironer – shoe manufacturing **9619**
last remodeler – woodworking **9513**
last repairman/woman – woodworking **9513**
last trimmer – woodworking **9513**
last turner – woodworking **9513**
laster – footwear manufacturing (except rubber) **9517**
laster – rubber footwear manufacturing **9423**
last-lathe tender – woodworking **9513**
last-pattern grader **5245**
latex carpet-backing department foreman/woman **9216**
latex coagulation operator **9421**
latex compounder **9421**
latex ribbon machine operator – rubber products manufacturing **9423**
latex thread machine operator – rubber products manufacturing **9423**
latex thread spooler – rubber products manufacturing **9615**
latex-coating machine operator – textile manufacturing **9443**
lathe hand – metal machining **9511**
lathe machining operator **9511**
lathe operator – concrete products **9414**
lathe operator – metal machining **9511**

lathe operator – woodworking **9513**
lathe operator, CNC (computer numerical control) – metal machining **9511**
lathe operator, toothpicks **9513**
lathe sander – woodworking **9513**
lathe spotter – wood processing **9434**
lathe turner – woodworking **9513**
lather **7284**
lather applicator **7284**
lather apprentice **7284**
lather interior systems mechanic **7284**
lather-mechanic, interior systems **7284**
lathers foreman/woman **7219**
lathers supervisor **7219**
Latin teacher – secondary school **4141**
lattice weaver, wire **9516**
launch captain **7436**
launch master **7436**
launch operator **7436**
launch owner-operator **7436**
launchman/woman **2273**
launderer **6681**
launderers supervisor **6214**
launderers, dry cleaners and press operators foreman/woman **6214**
laundromat attendant **6683**
laundry and dry cleaning foreman/woman **6214**
laundry and dry cleaning general manager **0015**
laundry and dry cleaning manager **0651**
laundry and dry cleaning workers and press operators foreman/woman **6214**
laundry attendant **6681**
laundry finisher **6682**
laundry helper **6681**
laundry labourer **6681**
laundry machine operator **6681**
laundry manager **0651**
laundry production supervisor **6214**
laundry route driver **7414**
laundry service manager **0651**
laundry services sales representative **6411**
laundry supervisor **6214**
laundry tub moulder – concrete products **9414**
laundry worker **6681**
law and corporate affairs adviser **4112**
law archivists supervisor **1211**
law clerk **4211**
law clerk to judge **4211**
law enforcement teacher – community college **4131**
law librarian **5111**
law partner **4112**
law professor – university **4121**
law reporter **5123**
law teacher – police college **4131**
lawn and garden equipment technician **7335**
lawn and garden supplies salesperson – retail **6421**
lawn care manager **8255**
lawn care service manager **8255**
lawn care specialist **2225**
lawn care superintendent **2225**
lawn care supervisor **8256**
lawn maintenance contractor **8255**
lawn mower **8612**
lawn mower repairer, gasoline powered **7335**
lawnmower assembler, electric **9484**
lawn-mowing worker **8612**
lawyer **4112**
lawyer, legal aid **4112**
lay assistant, teaching **6472**
lay notary public **4211**
lay teaching assistant **6472**
lay teaching-aide **6472**
layer out developer, structural metal and platework **7263**
layer out, structural metal and platework **7263**
layer, fire bricks **7281**
layer, marble **7283**
layer-out and patternmaker **5245**
layer-out, machine shop **9511**
layer-out, sheet metal **7261**
layer-up – garment manufacturing **9619**
lay-out and patternmaker **5245**
layout artist **5241**
layout designer **5241**
layout designer, animation **5241**
layout marker – cabinetmaking **7272**
lay-out marker – metal products manufacturing **9514**
lay-out marker – woodworking **9513**
layout marker, machine shop **9511**
layout marker, stones **9414**
layout marker, structural metal **7263**
layout table hemmer **9498**
layup machine operator – wood processing **9434**
layup man/woman, fibreglass – plastic manufacturing **9495**
lay-up worker – garment manufacturing **9619**
layup worker, fibreglass – plastic manufacturing **9495**
layup worker, plastic reproduction **9495**
leaching operator – primary metal processing **9411**

lead acid battery parts inspector **9487**
lead acid battery production tester – electrical equipment manufacturing **9487**
lead acid electrical battery production tester **9487**
lead acid storage battery plate former – electrical equipment manufacturing **9487**
lead acid storage battery plate maker **9487**
lead acid storage battery tester **9487**
lead acid storage battery tester – electrical equipment manufacturing **9487**
lead and copper refiner **9411**
lead burner **7265**
lead burner helper, zinc electrolysis **9611**
lead caster – foundry **9412**
lead caster – primary metal processing **9411**
lead caster, hand – foundry **9412**
lead coater **9497**
lead collections operator – water treatment **9212**
lead dust treater **9411**
lead extruder operator – primary metal processing **9411**
lead fabricator **9514**
lead former – electrical equipment manufacturing **9487**
lead hand assembler – furniture manufacturing **9492**
lead hand, assemblers – wood products manufacturing **9493**
lead hand, assembly – electrical equipment manufacturing **9484**
lead hand, assembly mechanics-fitters **7316**
lead hand, electrical mechanics **7333**
lead hand, forging machine operators **9512**
lead hand, industrial painters **9496**
lead hand, large electrical appliance assembly **9484**
lead hand, mechanical assemblers **9486**
lead hand, metal preparation – structural metal and platework **7263**
lead hand, small electrical appliance assembly **9484**
lead hand, tilesetters **7283**
lead hand, wood products assembly **9493**
lead ingot moulder – foundry **9412**
lead lineman/woman – electric power systems **7244**
lead lineman/woman – electricity production and transmission **7244**
lead operator – chemical processing **9232**
lead operator, blow-moulding machine – plastic manufacturing **9422**
lead operator, collections – water treatment **9212**
lead operator, injection-moulding machine – plastic manufacturing **9422**
lead operator, water treatment **9212**
lead oxide maker – chemical processing **9421**
lead oxide mill tender – chemical processing **9421**
lead reclaimer – primary metal processing **9611**
lead refiner **9411**
lead refining foreman/woman **9211**
lead shot caster – foundry **9412**
lead welder **7265**
lead wheel operator **9411**
lead-casting machine operator – primary metal processing **9411**
leaded glass glazier **7292**
leader of the opposition **0011**
leader, choir **5132**
leader, management seminar **4131**
leader, shift – mining and quarrying **8221**
lead-melting furnace tender – metal processing **9411**
lead-melting kettle tender – metal processing **9411**
lead-refining furnace operator **9231**
lead-smelting furnace tender – metal processing **9411**
lead-smelting kettle tender – metal processing **9411**
leaf spring assembler – motor vehicle manufacturing **9482**
leaf spring inspector **9514**
leaf spring maker – metal fabrication **9514**
leak inspector, gas mains **7442**
leak locator, gas mains **7442**
leak tester, aluminum boats **9491**
leak tester, refrigerant gases **9484**
leakage tester, gas mains **7442**
learning and study skills specialist **4143**
learning programs director – adult education **0413**
learning programs director – early-childhood education **0413**
learning programs director – elementary education **0413**
learning programs director – secondary education **0413**
lease administration supervisor **1221**
lease and title clerk **4211**
lease worker – textiles **9442**
leasehand – oil and gas drilling **8615**
leaser – textiles **9442**
leasing agent, automobiles **6421**
leasing agent, signs and displays **6411**

leasing and development officer – public works **1224**
leasing clerk, storage facility **6421**
leasing co-ordinator, property **1224**
leasing machine tender – textiles **9442**
leasing manager – real estate **0121**
leasing representative, automobiles **6421**
leasing representative, motor vehicles – retail **6421**
leasing services sales representative **6411**
leather bag maker **9498**
leather belt maker **9619**
leather buffer – hide and pelt processing **9453**
leather case maker **9498**
leather chemist **2112**
leather cleaner – laundry and dry cleaning **6681**
leather coater **9619**
leather cutter – leather footwear manufacturing **9452**
leather dyer – hide and pelt processing **9453**
leather finisher – dry cleaning **6682**
leather finishing foreman/woman – hide and pelt processing **9225**
leather garment cutter – manufacturing **9452**
leather garment sewer **9451**
leather garment sewing machine operator **9451**
leather glove examiner **9454**
leather glove repairer **9451**
leather glove worker **9619**
leather goods and clothing store manager **0621**
leather goods inspector **9454**
leather goods salesperson – retail **6421**
leather goods spray painter **9496**
leather goods sprayer **9496**
leather grader **9454**
leather harness maker **9452**
leather inspector **9454**
leather marker **9452**
leather measurer – hide and pelt processing **9453**
leather or suede sprayer – laundry and dry cleaning **6681**
leather polisher – hide and pelt processing **9453**
leather pressman/woman **9452**
leather processing labourer **9619**
leather products assembler **9498**
leather products manufacturing foreman/woman **9225**
leather products patternmaker **5245**
leather products sewing machine operator **9451**
leather rifle case maker **9452**
leather riveter – footwear manufacturing **9517**
leather sander – hide and pelt processing **9453**
leather sewer **9451**
leather shaver – hide and pelt processing **9453**
leather sorter **9454**
leather stainer – hide and pelt processing **9453**
leather stock inspector **9454**
leather stretcher – hide and pelt processing **9453**
leather tanner **9453**
leather tanneries inspector **9454**
leather trunk maker **9452**
leather worker **5244**
leather worker, hand **5244**
leather-glove-stitching machine operator **9451**
leather-sewing machine operator **9451**
leather-stripping machine tender – leather products manufacturing **9452**
lecturer – university **4121**
ledger clerk **1431**
ledger control clerk – financial sector **1434**
ledger control officer – financial sector **1434**
legal advisor **4112**
legal aid lawyer **4112**
legal assistant **4211**
legal assistant – collection **4211**
legal assistant program teacher – college **4131**
legal attaché **4112**
legal counsel **4112**
legal department chief **0114**
legal department director **0114**
legal firm manager **0123**
legal officer **4112**
legal officer – military **4112**
legal researcher **4211**
legal secretarial program teacher – college or vocational institute **4131**
legal secretary **1242**
legal services officer – courts **1227**
legal services record writers supervisor **1211**
legal stenographer **1242**
legal survey assistant **2254**
legal survey technician **2254**
legal survey technologist **2254**
legal surveyor **2154**
legal technician **4211**
legal terminologist **5125**
legal translator **5125**
legislative adviser **4112**
legislative assembly clerk **0314**
Legislative Assembly services director **0414**
legislative assistant **1222**
legislative body speaker **0011**
legislative committee officer **4168**
legislative counsel **4112**

legislative services director **0414**
legislator **0011**
leisure activities consultant **4167**
leisure activities counsellor **4167**
leisure activities program co-ordinator **4167**
leisure administrator **0513**
leisure administrator in chief **0513**
leisure analyst **4167**
leisure and sports attendant **6671**
leisure and sports director **0513**
leisure attendant **6671**
leisure centre director **0513**
leisure centre sports director **0513**
leisure chief administrator **0513**
leisure consultant **4167**
leisure co-ordinator **4167**
leisure counsellor **4167**
leisure director **0513**
leisure establishment director **0513**
leisure establishment managing supervisor **0513**
leisure facility attendant **6671**
leisure head administrator **0513**
leisure manager **0513**
leisure policy analyst **4167**
leisure program co-ordinator **4167**
leisure program leader **5254**
leisure programs director **0513**
leisure programs manager **0513**
leisure service director **0513**
leisure service manager **0513**
leisure services co-ordinator **4167**
leisure specialist **4167**
leisure specialist for the elderly **4167**
leisure worker for the elderly **4167**
lending services officer **1232**
lending services trainee **1232**
lens blank marker **9619**
lens block cleaner **9619**
lens blocker **9619**
lens coating technician, ophthalmic goods **3414**
lens cutter, ophthalmic goods **3414**
lens edger feeder – non-prescription **9517**
lens edger tender – non-prescription **9517**
lens grinder, ophthalmic **3414**
lens grinder-polisher setter **3414**
lens hardener **9619**
lens marker – health support services **3414**
lens marker – ophthalmic **3414**
lens mounter, eyeglasses **9498**
lens picker, optical and ophthalmic goods **3414**
lens tinter, ophthalmic goods **3414**
lens-grinding machine tender – non-prescription **9517**
lensometer operator – non-prescription **9517**
lens-polisher operator – non-prescription **9517**
lens-polishing machine operator – non-prescription **9517**
lens-silverer operator – non-prescription **9517**
lens-silvering machine operator – non-prescription **9517**
letter carrier **1462**
letter carriers supervisor **1214**
letter sorting clerk **1461**
letterer, monuments – stone products **9414**
letterer, photo processes – graphic arts **5223**
letterer, railway cars **9496**
letterer, signs **9496**
lettering artist **5223**
letterpress foreman/woman – printing **7218**
letterpress operator – printing **7381**
letterpress proof press operator – printing **7381**
letterpress proof puller – printing **7381**
letterpress room foreman/woman **7218**
level boss – underground mining **8221**
level vial setter **9619**
leveller operator – woodworking **9513**
leverman/woman – wood processing **9614**
leverman/woman, depiler table – primary metal processing **9611**
lexicographer **5121**
LHD (load-haul-dump) operator – underground mining **8231**
liability adjuster – insurance **1233**
liability clerk – financial sector **1434**
liability trading manager **0121**
liability underwriter **1234**
liaison nurse **3152**
liaison officer **1221**
liaison officer, child-care services **4164**
liaison officer, health and social services **4165**
liaison officer, labour organization **1121**
liaison officer, labour union **1121**
liaison officer, Native land claims **4168**
librarian **5111**
librarian, elementary school **4142**
librarian, high school **4141**
library aide **5211**
library assistant **5211**
library chief **0511**
library clerk **1451**
library clerks supervisor **1213**
library consultant **5111**
library co-ordinator **5111**

library curator **0511**
library director **0511**
library filer **1451**
library loans supervisor **1213**
library page **1451**
library science professor – university **4121**
library supervisor **5111**
library technician **5211**
licence clerk **1441**
licence clerks supervisor **1211**
licence inspector **6463**
licensed contact lens practitioner **3231**
licensed cook **6242**
licensed customs broker **1236**
licensed dental assistant **3411**
licensed dental therapist **3222**
licensed dispensing optician **3231**
licensed hearing instrument specialist **3235**
licensed interior designer **5242**
licensed midwife **3232**
licensed nursing assistant **3233**
licensed optician **3231**
licensed practical nurse (L.P.N.) **3233**
licensed practitioner, contact lenses **3231**
lie detector examiner **6465**
lied singer **5133**
lieutenant, firefighters **6262**
lieutenant-governor **0011**
life actuary **2161**
life insurance agent **6231**
life insurance representative **6231**
life insurance salesman/woman **6231**
life sciences professor – university **4121**
life sciences program manager **0212**
life sciences research technician **2221**
life skills coach **4212**
life skills instructor **4212**
life underwriter **1234**
lifeguard **5254**
lifeguard, beach **5254**
lifeguard, pool **5254**
lift driver **7452**
lift jack operator **7452**
lift operation supervisor **6216**
lift scoop operator **7452**
lift truck mechanic **7334**
lift truck operator **7452**
light agricultural and farm equipment assembly foreman/woman **9226**
light agricultural equipment assembler **9486**
light agricultural machinery assembler **9486**
light agricultural machinery assembly foreman/woman **9226**
light bulb inspector **9487**
light bulb inspector and tester **9487**
light bulb maker **9487**
light bulb making inspector **9487**
light bulb making machine operator **9487**
light bulb tester **9487**
light construction equipment assembler **9486**
light construction machinery assembly foreman/woman **9226**
light duty cleaner **6661**
light farm equipment assembler **9486**
light fixtures assembler **9484**
light industrial truck assembler **9486**
light material-handling equipment assembler **9486**
light materials handler **7452**
light rail transit (LRT) operators foreman/woman **7222**
light rail transit (LRT) operators supervisor **7222**
light rail transit operator **7412**
light truck assembler – automobile assembly **9482**
light, heat and power sales engineer **6221**
light-bulb-sealing machine operator – electrical equipment manufacturing **9487**
light-bulb-sealing machine tender – electrical equipment manufacturing **9487**
lighthouse keeper **7435**
lighting appliance salesperson – retail **6421**
lighting assistant **5227**
lighting designer **5243**
lighting designer – exhibits **5243**
lighting effects chief technician **5226**
lighting fixture assembler **9484**
lighting fixture assembly section leader **9484**
lighting fixture sales representative – wholesale (non-technical) **6411**
lighting fixtures wirer **9484**
lighting salesperson – retail **6421**
lighting technician **5226**
lighting technologist **2241**
lighting, heating and power sales representative **6221**
lighting, heating and power sales specialist **6221**
lightning cable installer **7441**
lightning rod erector helper **7611**
lightning rod installer **7441**
light-oil extractor operator **9421**
lime kiln helper – mineral products processing **9611**
lime kiln helper – pulp and paper **9614**

lime kiln operator – mineral and metal processing **9411**
lime kiln operator – pulp and paper **9432**
lime kiln operator helper – mineral products processing **9611**
lime mixer operator **9414**
lime mixer tender **9414**
lime preparation foreman/woman **9211**
lime slaker **9611**
lime sludge mixer **9432**
limer – hide and pelt processing **9453**
limestone spreader – underground mining **8614**
limnologist **2121**
limousine driver **7413**
line and cable contractor **7212**
line and cable installation and maintenance supervisor **7212**
line and cable installation foreman/woman **7212**
line and cable installers foreman/woman **7212**
line and cable workers supervisor **7212**
line and frame pole worker – wood products **9513**
line and station installer, telephone **7246**
line assembly utilityman/woman – electrical equipment manufacturing **9484**
line assembly, utilityman/woman **9484**
line checker – electric power systems **7244**
line checker, hardboard coating **9498**
line construction engineer **2133**
line cook **6242**
line crew blaster – underground mining **8411**
line dance teacher **5134**
line dancer **5134**
line editor **5122**
line fisherman/woman **8262**
line foreman/woman – power lines **7212**
line foreman/woman – telecommunications **7212**
line inspector – telecommunications **7245**
line inspector, linoleum **9495**
line installation trainee – electric power systems **7244**
line installer – telecommunications **7245**
line installer, telephone – military **7245**
line installer-repairer – telecommunications **7245**
line locator – utilities **7442**
line maintainer – electric power systems **7244**
line patroller – electric power systems **7244**
line repairer – electric power systems **7244**
line repairer – telecommunications **7245**
line servicer – electric power systems **7244**
line spooler **9441**
line technician, telecommunications **7245**
line-haul driver **7411**
linehorse operator **8241**
lineman/woman – electric power systems **7244**
lineman/woman – electric streetcar **7244**
lineman/woman – military **7245**
lineman/woman helper **7612**
lineman/woman helper – power and communication lines **7612**
lineman/woman trainee – electric power systems **7244**
lineman/woman trainee – electricity production and transmission **7244**
lineman/woman, telecommunications **7245**
lineman-technician/linewoman-technician – telecommunications **7245**
linen room attendant **1472**
linen supply clerk **1472**
linenkeeper **1472**
line-painting machine operator – highways and roads **7621**
liner installer, pipelines **7611**
liner machine operator – paper converting **9435**
liner replacer – ore-processing equipment **7612**
liner reroller – rubber products manufacturing **9423**
liner, crates **9619**
liner, gloves **9619**
lines distribution design technologist **2241**
lineshandler – canal lock system **7435**
linesman/woman – canal lock system **7435**
linesman/woman – shipbuilding **7383**
linesman/woman, sports **5253**
line-up adjuster – motor vehicle manufacturing **9482**
line-up editor **5122**
lineup examiner – printing **9472**
line-up man/woman – motor vehicle manufacturing **9482**
lineworker – electrical power systems **7612**
lineworker helper **7612**
lineworker-technician – telecommunications **7245**
linguist **4169**
linguistic anthropologist **4169**
linguistics professor – university **4121**
lining inserter, skates **9619**
lining sewer **9451**
lining stitcher **9451**
link cutter – garment manufacturing **9619**
link machine knitter **9442**
link wire machine set-up operator **9516**
link wire machine tender **9516**
linking machine tender – food and beverage processing **9617**

linoleum floor covering installer **7295**
linoleum floor covering layer **7295**
linoleum floor installer **7295**
linoleum floor layer **7295**
linoleum floor tile backer **9422**
linoleum floor tile calender operator **9422**
linoleum inspector **9495**
linoleum line inspector **9495**
linoleum oil oxidizer **9421**
linoleum quality control inspector **9495**
Linotype composing machine operator **1423**
linotype repairer **7311**
linseed oil extractor **9461**
lip-reading teacher **4215**
liquefaction plant operator **9232**
liquefied gas drum filler **9421**
liquid fertilizer truck driver **7411**
liquid fuels engineer **2134**
liquid mixer, photographic chemicals **9421**
liquid penetrant inspector **2261**
liquid penetrant technician **2261**
liquid sugar operator **9461**
liquid waste facility manager **0912**
liquid waste process operator **9424**
liquid waste-processing plant, operator **9424**
liquids loader-unloader **7452**
liquor blender – food and beverage processing **9461**
liquor board licence inspector **6463**
liquor commissioner **0012**
liquor controller – inventory **1431**
liquor gallery tender – food and beverage processing **9461**
liquor gallery tender helper – food and beverage processing **9617**
liquor licence inspector **6463**
liquor maker – pulp and paper **9432**
liquor sales representative – wholesale **6411**
liquor store manager **0621**
liquor store sales clerk **6421**
liquor store supervisor **6211**
liquor tester – food and beverage processing **9465**
LIS (land information system) technician **2255**
LIS (land information system) technologist **2255**
literary agent **5124**
literary critic **5123**
literary editor **5122**
literary translator **5125**
literary writer **5121**
literature professor – university **4121**
litho artist **5241**
lithographic artist **5136**
lithographic offset press feeder **9619**
lithographic offset proofer **7381**
lithographic offset proofing hand **7381**
lithographic plate preparer **9472**
lithographic platemaker **9472**
lithographic press feeder, sheet metal **9619**
lithographic press operator – printing **7381**
lithographic press operator, sheet metal **7381**
lithographic pressman/woman – printing **7381**
lithographic pressman/woman, sheet metal **7381**
lithographic printer **7381**
litigation law clerk **4211**
litigation legal assistant **4211**
litigation paralegal **4211**
litigation secretary **1242**
litigator **4112**
live-in caregiver **6474**
live-in caretaker **6663**
livery stable foreman/woman **8253**
livestock attendant **8253**
livestock breeding service manager **8252**
livestock broker **6411**
livestock buyer **6233**
livestock commission agent **6411**
livestock dealer **0611**
livestock development manager **0212**
livestock driver **8431**
livestock exchange manager **8252**
livestock farm workers foreman/woman **8253**
livestock farmer **8251**
livestock foreman/woman **8253**
livestock inspector **2222**
livestock killer **9462**
livestock labourer **8431**
livestock production programs manager **0212**
livestock program development manager **0212**
livestock raising foreman/woman **8253**
livestock sales representative – wholesale **6411**
livestock specialist **2123**
livestock weigher **8431**
livestock yard attendant **8431**
livestock yardman/woman **8431**
load agent – airline **6433**
load control agent – airline **6433**
load control supervisor **1215**
load dispatcher – electrical power systems **7352**
load dispatcher apprentice – electrical power systems **7352**
load planner, airline **6433**
loader – chemical processing **9613**
loader operator – construction **7421**
loader operator – logging **8241**

loader operator, bulk materials **7452**
loader, chute – underground mining **8411**
loader, coke – primary metal processing **9611**
loader, fats and oils **7452**
loader, freight (except air transport) **7452**
loader, furnace – primary metal and mineral products processing **9611**
loader, logging truck **8241**
loader, railway car **7452**
loader, ready-mix trucks **7452**
loader, scrap metal **9611**
loader, skip – underground mining **8411**
loader, tank trucks **7452**
loader, trucks **7452**
loaderman/woman, diesel – underground mining **8231**
loader-unloader – material handling **7452**
loader-unloader, furniture **7452**
loader-unloader, liquids **7452**
load-haul-dump (LHD) operator – underground mining **8231**
loading and moving foreman/woman – construction **7217**
loading bridge operator **7435**
loading bridge operator – ferry **7435**
loading dock foreman/woman **7217**
loading foreman/woman – logging **8211**
loading head operator – underground mining **8411**
loading inspector – chemical processing **9421**
loading machine operator – underground mining **8231**
loading pocket operator – underground mining **8411**
loading shovel oiler **7443**
loan and credit manager – banking or trust company **0122**
loan clerk – financial sector **1434**
loan collector **1435**
loan inspector **1232**
loans adviser **1232**
loans agent **1232**
loans analyst **1232**
loans and grants administrative assistant **1441**
loans counsellor **1232**
loans manager **0122**
loans manager trainee **0122**
loans officer **1232**
loans supervisor **1232**
loans supervisor, library **1213**
lobby chief executive officer – health, education, social and community services and membership organizations **0014**
lobby porter **6672**
lobbyist, Aboriginal issues **4164**
lobbyist, agricultural issues **4161**
lobbyist, business issues **4163**
lobbyist, environmental issues **4161**
lobbyist, Native issues **4164**
lobster culture technician **2221**
lobster farmer **8257**
lobster fisherman/woman **8262**
lobster pound attendant **8613**
lobster processor – fish processing **9463**
local area network (LAN) administrator **2281**
local area network (LAN) manager **2281**
local area network (LAN) operator **2281**
local area network (LAN) technician **2281**
local government manager **0012**
local health services director – government services **0411**
local manager, social services **0314**
local news editor **5122**
local tour guide **6441**
localisator **5125**
location manager – motion pictures and broadcasting **5226**
locator **1435**
lock assembler **9498**
lock expert **7383**
lock fitter **7383**
lock maker **9498**
lock operator **7435**
lock repairer **7383**
lock repairman/woman **7383**
lock setter **7383**
locker plant attendant – food and beverage processing **9461**
locker room attendant **6683**
lockmaster **7435**
locksmith **7383**
locksmithing expert **7383**
locomotive attendant – railway yard **7431**
locomotive builder **7316**
locomotive crane operator **7371**
locomotive craneman/woman **7371**
locomotive dispatcher **2275**
locomotive distributor – railway yard **7431**
locomotive electrical inspector **9485**
locomotive engine servicer **7431**
locomotive engineer – railway **7361**
locomotive erecting shop foreman/woman **7216**

locomotive hostler **7361**
locomotive inspectors foreman/woman **7216**
locomotive maintenance attendant **7431**
locomotive mechanic **7312**
locomotive painter **9496**
locomotive repairman/woman, diesel **7312**
locomotive servicer **7431**
lodge cleaner **6661**
lodging house manager **0632**
lodging house managing supervisor **6216**
lodging-establishment cleaner (except private households) **6661**
loft rigger – boat assembly **9491**
loftsman/woman – aircraft manufacturing **7383**
loftsman/woman – shipbuilding **7383**
log analyst **2212**
log boom tugboat deckhand **7433**
log buyer **6233**
log cooker – wood processing **9434**
log cut-off operator – sawmill **9431**
log cut-off sawyer – sawmill **9431**
log cutter **8421**
log deck tender **9614**
log driver **8616**
log feeder **9614**
log gang saw operator – sawmill **9431**
log gang sawyer – sawmill **9431**
log grader **2223**
log handler **9614**
log haul cut-off saw operator – sawmill **9431**
log hauler **7411**
log hoist operator – sawmill **9431**
log home builder **7271**
log home carpenter **7271**
log home carpenter-builder **7271**
log loader operator **8241**
log loading machine operator **8241**
log peeler, hand **9614**
log process operator **8241**
log processor operator **8241**
log rider **8616**
log scaler **2223**
log technician **2212**
log transfer tender **9614**
log truck driver **7411**
log vat tender – wood processing **9434**
log yarding boss **8211**
logger **8421**
loggers supervisor – forestry **8211**
logging and forestry labourer **8616**
logging and perforating operator **8232**
logging and perforating operator – oil field services **8232**
logging camp cook **6242**
logging camp cookee **6641**
logging contractor **8211**
logging crane operator **8241**
logging crew supervisor – forestry **8211**
logging engineer, oil wells **2145**
logging equipment salesperson **6221**
logging foreman/woman **8211**
logging labourer **8616**
logging machinery fitter **7316**
logging machinery operator **8241**
logging production manager **0811**
logging road construction foreman/woman **7217**
logging supervisor **8211**
logging tractor operator **8421**
logging truck driver **7411**
logging truck loader **8241**
logistical supervisor – traffic **1215**
logistics clerk, transportation **1476**
logistics director – transportation **0713**
logistics manager – manufacturing **0911**
logistics manager – transportation **0713**
logistics officer – military **0713**
logistics officer (administration) – military **0114**
logistics officer (food services) – military **0631**
logistics supervisor **1215**
logistics supervisor – transportation **1215**
logopedist **3141**
lollipop maker **9461**
long distance bus driver **7412**
long distance telephone operator **1424**
long distance truck driver **7411**
long haul driver **7411**
long haul driver, groceries **7411**
long haul tractor-trailer driver **7411**
long haul truck driver **7411**
long range planner – land use **2153**
long term care aide **3413**
long-hole blaster – underground mining **8231**
long-hole driller – underground mining **8231**
longline fisherman/woman **8262**
longliner fisherman/woman **8262**
longshore worker **7451**
longshore worker and tower-loader operator **7451**
longshore workers foreman/woman **7217**
longshoreman/woman **7451**
longshoremen/women, stevedores and freight handlers foreman/woman **7217**
long-term care program consultant **4165**
longwall coal shearer operator **8231**

lookout – forestry **8422**
loom changer **7317**
loom cleaner **9616**
loom doffer – textile processing **9616**
loom drawer-in **9442**
loom drawer-in helper **9442**
loom drawer-in, machine **9442**
loom fixer – textile manufacturing **7317**
loom fixer, jacquard – textile manufacturing **7317**
loom helper, wire **9612**
loom inspector **9444**
loom mechanic – textile manufacturing **7317**
loom mechanic-repairer – textile manufacturing **7317**
loom operator **9442**
loom pattern changer **7317**
loom preparer **7317**
loom reed repairer – textile manufacturing **7317**
loom repairer – textile manufacturing **7317**
loom setter **7317**
loom setter – textile manufacturing **7317**
loom setter, jacquard – textile manufacturing **7317**
loom setter, wire weaving **9516**
loom setter, wires **9516**
loom starter **7317**
loom technician – textile manufacturing **7317**
loom tender – rubber products manufacturing **9423**
loom threader **9442**
loom threader helper **9442**
loom threader, machine **9442**
loom weaver **9442**
loom-winder tender **9441**
looper – textiles **9442**
looper fixer – textile manufacturing **7317**
looper setter – textile manufacturing **7317**
looper, garments **9442**
looper, hosiery – textiles **9442**
looper, socks **9442**
looping machine tender – wood products manufacturing **9513**
loss examiner – insurance **1233**
loss prevention inspector – insurance **2262**
loss prevention officer – retail **6465**
loss prevention officers supervisor **6465**
loss prevention technologist **2233**
lost claims clerk **1453**
lost or damaged goods claim clerk **1453**
lost parcel post search clerk **1461**
lost pattern caster – foundry **9412**
lost postal package search clerk **1461**
lost wax caster – foundry **9412**
lost-and-found clerk **1453**
lost-and-found desk clerk **1453**
lottery kiosk clerk **6421**
lottery sales representative – retail **6421**
lottery supervisor – government services **6463**
lounge supervisor-bartender **6452**
lounge waiter/waitress **6453**
louvred fence erector **7441**
low voltage equipment engineer **2133**
low-bed semi-trailer driver **7411**
low-rise residential home builder **0712**
low-temperature physicist **2111**
LRT (light rail transit) operators foreman/woman **7222**
LRT (light rail transit) operators supervisor **7222**
LSQ (langue des signes québécoise) interpreter **5125**
lube and splice operator – rubber products **9423**
lube technician **7443**
lubricating equipment salesperson **6221**
lubrication engineer **2132**
lubricator, railway cars **7431**
Ludlow machine operator **1423**
Ludlow typesetting machine operator **1423**
luge coach **5252**
luge instructor **5252**
luggage assembly foreman/woman – fabric, fur and leather products manufacturing **9225**
luggage attendant **6672**
luggage checker (except airline) **6434**
luggage designer **5243**
luggage finisher **9498**
luggage handle maker **9619**
luggage shell bonder operator **9517**
luggage stylist **5243**
lumber buyer **6233**
lumber drop sorter – wood processing **9434**
lumber feeder – wood processing **9614**
lumber grader **9436**
lumber grading foreman/woman – wood processing **9215**
lumber handler – building supplies **7452**
lumber handler – wood processing **9614**
lumber inspector **9436**
lumber kiln operator **9434**
lumber marker **9436**
lumber mill manager **0911**
lumber piler – building supplies **7452**
lumber sales representative – wholesale **6411**
lumber salvager – wood processing **9614**
lumber sizer operator – sawmill **9431**

lumber sorter, machine **9434**
lumber stocker – material handling **7452**
lumber straightener – wood processing **9614**
lumber tailer – wood processing **9614**
lumber tallyman/woman **1473**
lumber tier – wood processing **9614**
lumber unloader – material handling **7452**
lumberjack **8421**
lump maker – tobacco processing **9464**
lump roller – tobacco processing **9464**
lunch room supervisor – elementary school **6472**
lunchroom counter attendant **6641**
lunchroom counterman/woman **6641**
lunchtime supervisor – elementary school **6472**
lung specialist **3111**
lusterer – textile manufacturing **9443**
lye peel tender – food and beverage processing **9461**
lyricist **5132**

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macaroni press operator **9461**
machine advertising signs printer **9471**
machine assembler, springs **9516**
machine ball fringe maker **9442**
machine base cement filler – electrical equipment manufacturing **9487**
machine binder – printing **9473**
machine bookbinder **9473**
machine bronzer – printing **9473**
machine buffer, stones **9414**
machine builder **7316**
machine builder-fitter **7316**
machine builders foreman/woman **7216**
machine cardboard maker **9435**
machine carver – woodworking **9513**
machine cement pipe shaper – clay products **9414**
machine chain maker **9516**
machine cigar wrapper **9617**
machine collator and gluer – printing **9473**
machine colour card maker **9435**
machine compositor – typesetting **1423**
machine contour grinder – concrete, clay and stone products **9414**
machine coremaker **9412**
machine coremaker – foundry **9412**
machine cutter – printing **9473**
machine cutter, metal pipes **9516**
machine cutter, rolls – paper converting **9435**
machine decorator – clay products **9414**
machine designer **2232**
machine drapery pleater **9517**
machine drawer, wires **9411**
machine enameller **9496**
machine engraver – arts and crafts **5244**
machine engraver – manufacturing **9517**
machine envelope flap gummer – paper converting **9435**
machine feeder **9619**
machine feeder, rubber cutting **9615**
machine felt cutter **9452**
machine fitter **7316**
machine fitters foreman/woman **7216**
machine fitters supervisor **7216**
machine flesher – hide and pelt processing **9453**
machine folder – printing **9473**
machine fur cleaner **6681**
machine gatherer and gluer – printing **9473**
machine gluer, pads – paper converting **9435**
machine greenware turner – clay products **9414**
machine gummer, envelope flaps – paper converting **9435**
machine heel maker **9517**
machine helper – primary metal and mineral products processing **9611**
machine hose cutter and brander – rubber products manufacturing **9423**
machine hose maker – rubber products manufacturing **9423**
machine jointer, panels – woodworking **9513**
machine knitter helper **9616**
machine knitting mender **9442**
machine loom drawer-in **9442**
machine loom threader **9442**
machine maintenance foreman/woman – manufacturing **7216**
machine marble polisher – stone products **9414**
machine marker **9471**
machine mechanic-fitter helper **7612**
machine mender, knitting **9442**
machine moulder – foundry **9412**
machine off-bearer – rubber products manufacturing **9615**
machine operator – electrical appliance and equipment manufacturing **9487**
machine operator – electrical appliance manufacturing **9487**
machine operator – electrical equipment manufacturing **9487**
machine operator – electronic equipment manufacturing **9483**
machine operator – fish processing **9463**

machine operator – food and beverage processing **9461**
machine operator – garment manufacturing **9451**
machine operator – glass forming and finishing **9413**
machine operator – hide and pelt processing **9453**
machine operator – metal machining **9511**
machine operator – mineral and metal processing **9411**
machine operator – motor vehicle manufacturing **9482**
machine operator – plastic manufacturing **9422**
machine operator – plastics processing **9422**
machine operator – plating and metal spraying **9497**
machine operator – railway **7432**
machine operator – textile fibre and yarn preparation **9441**
machine operator – tobacco processing **9464**
machine operator – welding, brazing and soldering **7265**
machine operator helper, plastic products manufacturing **9615**
machine operator helper, rubber products manufacturing **9615**
machine operator, binding and finishing **9473**
machine operator, brick cutting – clay products **9414**
machine operator, brick moulding – clay products **9414**
machine operator, clay products **9414**
machine operator, concrete blocks **9414**
machine operator, concrete spinning **9414**
machine operator, laundry and dry cleaning **6681**
machine operator, metalworking **9514**
machine operator, paper converting **9435**
machine operator, plasterboard **9414**
machine operator, woodworking **9513**
machine packager **9619**
machine pad gluer – paper converting **9435**
machine pleater, draperies **9517**
machine plug moulder – tobacco processing **9464**
machine plywood patcher **9434**
machine polisher, granite **9414**
machine polisher, marble – stone products **9414**
machine power saw operator **9514**
machine presser – laundry and dry cleaning **6682**
machine printer, advertising signs **9471**
machine printer, signs **9471**
machine processing accountant **1111**
machine riveter – electrical equipment manufacturing **9487**
machine roll cutter – paper converting **9435**
machine roll slitter – paper converting **9435**
machine router – metal machining **9511**
machine sander – woodworking **9513**
machine setter, metalworking **9514**
machine setter, woodworking **9513**
machine set-up operator – electric equipment manufacturing **9487**
machine set-up operator – electrical appliance manufacturing **9487**
machine set-up operator – electrical equipment manufacturing **9487**
machine set-up operator – plastic manufacturing **9422**
machine shaper, cement pipes – clay products **9414**
machine shop bench hand – metal products manufacturing **9612**
machine shop charge hand **7231**
machine shop foreman/woman **7211**
machine shop helper – metal products manufacturing **9612**
machine shop inspector **7231**
machine shop inspector, auto parts **7231**
machine shop inspectors foreman/woman **7211**
machine shop keeper **1472**
machine shop layer-out **9511**
machine shop supervisor **7211**
machine shotgun-shell printer **9471**
machine side stitcher – printing **9473**
machine sign writer **9471**
machine skiver – leather products manufacturing **9517**
machine sleeve assembler – electrical equipment manufacturing **9487**
machine slitter, rolls – paper converting **9435**
machine splitter – sawmill **9431**
machine splitter, stones **9414**
machine stitcher – binding **9473**
machine stone buffer **9414**
machine stone splitter **9414**
machine stripper – tobacco processing **9464**
machine tassel maker **9442**
machine tender, nuts and bolts **9516**
machine tier-in, warps – textiles **9442**
machine tobacco packer **9617**
machine tool builder **7316**
machine tool builder-integrator **7316**
machine tool designer **2232**
machine tool grinding foreman/woman **7211**
machine tool integrator **7316**
machine tool operator – metal machining **9511**

machine tool operators foreman/woman **7211**
machine tool setter **9511**
machine tool set-up man/woman **9511**
machine tool set-up operator **9511**
machine tool set-up operator, aircraft engine parts **9511**
machine tool set-up operator, bench **9511**
machine trimmer – rubber products manufacturing **9423**
machine try-out tester **9486**
machine tube assembler – electrical equipment manufacturing **9487**
machine tube maker – paper converting **9435**
machine tuber – electrical equipment manufacturing **9487**
machine tuber – paper converting **9435**
machine turner, greenware – clay products **9414**
machine type solderer **7265**
machine typecaster **1423**
machine warp tier-in – textiles **9442**
machine washer – laundry and dry cleaning **6681**
machine welder **7265**
machine wire drawer **9411**
machine wire-cutter and wire-stripper – electrical equipment manufacturing **9487**
machine wrapper, cigars **9617**
machined parts inspector **7231**
machine-line moulder – foundry **9412**
machinery assembly foreman/woman **7216**
machinery manufacturing fitter **7316**
machinery manufacturing foreman/woman **7216**
machinery mechanic, boilerhouse **7311**
machinery mechanic, powerhouse **7311**
machinery salesperson **6221**
machine-tool setter – metal machining **9511**
machining and tooling inspector **7231**
machining and tooling inspectors foreman/woman **7211**
machining equipment set-up operator **9511**
machining foreman/woman **7211**
machining foreman/woman – furniture and fixtures manufacturing **9224**
machining inspector **7231**
machining inspector, firearms **7231**
machining inspectors foreman/woman **7211**
machining supervisor **7211**
machining tool foreman/woman **7211**
machining tool operator **9511**
machining tool operator, CNC (computerized numerical control) **9511**
machining tool operators foreman/woman **7211**
machinist **7231**
machinist – military **7231**
machinist apprentice **7231**
machinist, aircraft engine parts **7231**
machinist, automotive **7231**
machinist, ballistic laboratory **7231**
machinist, bench **7231**
machinist, CNC (computer numerical control) **7231**
machinist, diesel engines **7231**
machinist, differential gear testing **7231**
machinist, experimental **7231**
machinist, maintenance **7231**
machinist, model maker **7231**
machinist, motion picture equipment **7231**
machinist, mouldmaking **7231**
machinist, moulds and cores **7231**
machinist, precision **7231**
machinist, toolroom **7231**
machinist-electrician **5226**
machinists and machine tool set-up operators foreman/woman **7211**
machinists foreman/woman **7211**
machinists supervisor **7211**
maestro **5132**
magazine distribution agent – retail **6623**
magazine editor **5122**
magazine foreman/woman, explosives **1215**
magazine keeper **1472**
magazine keeper – military **1472**
magazine sales representative – wholesale **6411**
magazine salesperson – retail **6421**
magazine shop clerk **6421**
magazine subscription solicitor **6623**
magician **5232**
magistrate court judge **4111**
Magnaflux inspector **2261**
magnetic flame cutting machine operator – metal fabrication **9514**
magnetic ink character recognition clerk **1431**
magnetic observer **2212**
magnetic particle inspector **2261**
magnetic particle technician **2261**
magnetic particle tester **2261**
magnetic particle testing technician **2261**
magnetic resonance imaging (MRI) technologist **3215**
magnetic resonance technologist **3215**
magnetic separator operator – primary metal processing **9411**
magnetic valve assembler **9498**
magnetism physicist **2111**

magnetometer assembler – electronic equipment manufacturing **9483**
maid – cleaning services **6661**
mail and message distribution clerk **1414**
mail and postal clerks supervisor **1214**
mail carrier **1462**
mail carrier, special delivery **1462**
mail carriers supervisor **1214**
mail clerk **1461**
mail clerk – railway transport **1461**
mail clerks supervisor **1214**
mail collector **1462**
mail counter clerk **1461**
mail courier – courier service **1463**
mail deliverer **1462**
mail distribution clerk **1461**
mail facilities senior administrator **1214**
mail filing clerk **1461**
mail handler **1461**
mail operations manager **0132**
mail order clerk **1441**
mail order filler **1441**
mail processing clerk **1461**
mail processing plant manager **0132**
mail processing plant superintendent **0132**
mail room assistant **1461**
mail room clerk **1461**
mail room supervisor **1214**
mail service courier **7414**
mail service dispatcher **1475**
mail sorter **1461**
mail tracing clerk **1461**
mail truck driver – heavy trucks **7411**
mailer **1461**
mailing list compiler **1452**
mailing machine operator **1461**
mail-processing equipment mechanic **7311**
mail-sorting system operator **1461**
main bearing borer – metal machining **9511**
mainframe systems programmer **2174**
maintainer, grounds **8612**
maintainer, mobile home **7441**
maintainer, oil-drilling rig **7311**
maintainer, voltage regulator – electrical power system **7243**
maintenance and repair plumber **7251**
maintenance and repair plumber, (non-construction) **7251**
maintenance and service manager **0721**
maintenance and service superintendent **0721**
maintenance boilermaker **7262**
maintenance bricklayer **7281**
maintenance carpenter **7271**
maintenance carpenter helper **7611**
maintenance carpenter-joiner **7271**
maintenance carpenters foreman/woman **7215**
maintenance cement mason **7282**
maintenance chief, aircraft **7216**
maintenance co-ordinator **0721**
maintenance electrician – industrial **7242**
maintenance electricians foreman/woman **7212**
maintenance electricians supervisor **7212**
maintenance engineer, aircraft mechanical systems **7315**
maintenance equipment operator – public works **7422**
maintenance equipment operator, railway track **7432**
maintenance foreman/woman, production machinery **7216**
maintenance inspector – construction **2264**
maintenance joiner **7271**
maintenance labourer – public works **7621**
maintenance labourer, parks **8612**
maintenance lineman/woman – electric power systems **7244**
maintenance machine shop foreman/woman **7211**
maintenance machinist **7231**
maintenance man/woman, buildings **6663**
maintenance manager **0721**
maintenance mechanic **7311**
maintenance mechanic – utilities **7311**
maintenance mechanic helper, factory or mill **7612**
maintenance mechanic supervisor, production equipment **7216**
maintenance mechanic supervisor, production machinery **7216**
maintenance mechanic technician – industrial **7311**
maintenance mechanic, compressed gas plant **7311**
maintenance mechanic, elevators **7318**
maintenance mechanic, factory **7311**
maintenance mechanic, industrial machinery **7311**
maintenance mechanic, industrial plant **7311**
maintenance mechanic, mill **7311**
maintenance mechanic, oil tools **7311**
maintenance mechanic, plant **7311**
maintenance mechanic, plant machinery **7311**
maintenance mechanic, production machinery **7311**
maintenance mechanic, production tooling **7311**

maintenance mechanic, steam plant **7311**
maintenance mechanic, treatment plants **7311**
maintenance mechanics foreman/woman, production machinery **7216**
maintenance millwright **7311**
maintenance of way employee – railway **7432**
maintenance of way inspector – railway **7432**
maintenance operations manager **0721**
maintenance painter **7294**
maintenance painter, plant **7294**
maintenance pipefitter **7252**
maintenance planner **0721**
maintenance plumber **7251**
maintenance repairman/woman, gas mains **7442**
maintenance service clerk **1453**
maintenance services dispatcher **1475**
maintenance services manager **0721**
maintenance sheet metal worker **7261**
maintenance superintendent **0721**
maintenance supervisor **0721**
maintenance supervisor, aircraft – aircraft mechanical systems **7216**
maintenance supervisor, aircraft mechanical systems **7216**
maintenance supervisor, processing and packaging equipment **7216**
maintenance supervisor, telecommunication lines **7212**
maintenance support services chief **0721**
maintenance technician – nondestructive testing (NDT) **2261**
maintenance technician – non-destructive testing (NDT) **2261**
maintenance technician, aircraft **7315**
maintenance technician, cable television **7247**
maintenance utility worker **7442**
maintenance welder **7265**
maintenance worker, building **6663**
maintenance worker, campground **6671**
maintenance worker, grounds **8612**
maintenance worker, parks **8612**
maintenance worker, water mains **7442**
maintenance worker, waterworks **7442**
maintenance-of-way foreman/woman **7217**
maître d' **6451**
maître d'hôtel **6451**
major community projects co-ordinator **0314**
major electric appliance repairer **7332**
major electric household appliance installer **7441**
major electrical appliance installer **7441**
major electrical appliance repairer **7332**
major electrical appliance servicer **7332**
maker, preparator, models **5212**
maker, slides – photographic processing **9474**
make-up artist – motion pictures, broadcasting and performing arts **5226**
make-up artist and hairdresser – performing arts **5226**
make-up artist and wig maker **5226**
make-up consultant **6481**
malacology technician **2221**
malariologist **2121**
malt dryer tender – food and beverage processing **9461**
malt roaster – food and beverage processing **9461**
malthouse operator – food and beverage processing **9461**
malthouse worker **7452**
maltster – food and beverage processing **9461**
mammalogist **2121**
mammalogy technician **2221**
mammalogy technologist **2221**
mammography technician **3215**
mammography technologist **3215**
man/woman, ventilation – underground mining **8411**
management accountant **1111**
management accounting chief **1111**
management analyst **1122**
management consultant **1122**
management consulting service manager **0123**
management information system (MIS) manager **0213**
management information systems (MIS) analyst **2171**
management information systems consultant **2171**
management planning officer **1221**
management seminar leader **4131**
management services clerk **1461**
management services division chief **0114**
management services officer – military **0114**
management trainee – retail **0621**
management trainee, consumer credit **0122**
manager – First Nations **0012**
manager – retail store chain **0621**
manager assistant, art gallery **0511**
manager engineering service, quality assurance **0211**
manager of accounting department **0111**
manager of auditing department **0111**
manager of mining operations **0811**
manager trainee – retail **0621**
manager trainee, consumer credit services **0122**
manager trainee, restaurant **0631**

manager, academy of music **0651**
manager, accommodation services **0632**
manager, accounting **0111**
manager, accounting firm **0123**
manager, actuarial department **0212**
manager, administrative records **0114**
manager, administrative services **0114**
manager, administrative support services **0114**
manager, advertising **0611**
manager, advertising agency **0123**
manager, agency marketing department **0611**
manager, agricultural programs – government services **0412**
manager, air freight **0713**
manager, airline **0713**
manager, airline express **0713**
manager, airport **0721**
manager, airport services **0721**
manager, architectural service **0212**
manager, archives **0511**
manager, arena **0721**
manager, art gallery **0511**
manager, artificial insemination service **8252**
manager, association **0314**
manager, athletes **5124**
manager, athletic facility **0721**
manager, auditing department **0111**
manager, auditing firm **0123**
manager, automobile driver training school **0651**
manager, automobile driving school **0651**
manager, aviation school **0312**
manager, bank **0122**
manager, banking operations **0122**
manager, barber shop **0651**
manager, beauty shop **0651**
manager, bed and breakfast **0632**
manager, benefits **0112**
manager, boarding house **0632**
manager, book publishing **0512**
manager, building maintenance **0721**
manager, building operations **0721**
manager, building services **0721**
manager, buildings, vehicles and supplies **0114**
manager, bus company **0713**
manager, business school **0312**
manager, business services **0123**
manager, camp **0632**
manager, campaign **0611**
manager, campground **0632**
manager, campus maintenance **0721**
manager, car wash **0651**
manager, carpet cleaning service **0651**
manager, cartage company **0713**
manager, catering service **0631**
manager, chemical research division **0212**
manager, child welfare services – government services **0411**
manager, circulation **0611**
manager, civil engineering division **0211**
manager, cold storage **0651**
manager, collection **0111**
manager, collection and delivery operations – postal service **0132**
manager, collection centre **0122**
manager, commercial development – postal and courier services **0132**
manager, communications **0611**
manager, community centre **0314**
manager, community rehabilitation – government services **0411**
manager, compensation **0112**
manager, compressor station **0912**
manager, computer and related services **0213**
manager, computer application development **0213**
manager, computer applications **0213**
manager, computer facility **0213**
manager, computer legacy systems **0213**
manager, computer system operations **0213**
manager, computer systems **0213**
manager, computer systems development **0213**
manager, computerized information systems **0213**
manager, conference centre **0721**
manager, cooking school **0651**
manager, copyright and royalties **0512**
manager, corporate accounts – banking, credit and investment **0122**
manager, corporate banking centre **0122**
manager, corporate budgeting and analysis **0111**
manager, corporate financing **0111**
manager, corporate policy – education **0413**
manager, corporate risk department **0111**
manager, corporate services – banking, credit and investment **0122**
manager, corporate traffic **0713**
manager, corporate transportation **0713**
manager, corporate trust services **0122**
manager, correspondence and public inquiries **0611**
manager, counselling services **0314**
manager, courier service **0132**
manager, court services **1227**
manager, credit and collection **0122**
manager, credit card centre **0122**
manager, credit union **0122**

manager, crematorium **0651**
manager, crop harvesting service **8252**
manager, current schedule planning – airline **0713**
manager, custom tailoring shop **0621**
manager, customs house **0123**
manager, dance school **0651**
manager, data centre **0213**
manager, data processing **0213**
manager, data processing and systems analysis **0213**
manager, data processing planning **0213**
manager, database **2172**
manager, department store **0621**
manager, detective agency **0123**
manager, disability management program **0112**
manager, distillery **0911**
manager, distribution **0721**
manager, distribution and warehousing **0721**
manager, distribution centre **0721**
manager, distribution services **0721**
manager, distribution, refined petroleum products **0912**
manager, district – employment insurance **0411**
manager, dog kennel **0651**
manager, drilling operations **0811**
manager, driving school **0651**
manager, dry cleaning plant **0651**
manager, dry cleaning service **0651**
manager, earth station – telecommunications **0131**
manager, ecological research **0212**
manager, ecology **0212**
manager, EDP (electronic data processing) **0213**
manager, education policy **0413**
manager, education policy development **0413**
manager, education program administration **0413**
manager, election campaign **0611**
manager, electric generating plant **0912**
manager, electric generating station **0912**
manager, electric power plant **0912**
manager, electric power services **0912**
manager, electrical engineering service **0211**
manager, electronic data processing (EDP) **0213**
manager, employee benefits **0112**
manager, employer-employee relations **0112**
manager, employment **0112**
manager, employment agency **0123**
manager, employment equity – human resources **0112**
manager, employment office **0123**
manager, engineering **0211**
manager, engineering department **0211**
manager, engineering service **0211**
manager, engineering service group **0211**
manager, engineering service quality control **0211**
manager, environmental science **0212**
manager, escort agency **0651**
manager, esthetic services **0651**
manager, export programs – government services **0412**
manager, export sales **0611**
manager, export traffic **0713**
manager, facility maintenance **0721**
manager, farm **8251**
manager, farm produce packing service **8252**
manager, fertilization service – agriculture **8252**
manager, film production **0512**
manager, finance **0111**
manager, financial control **0111**
manager, financial planning and analysis **0111**
manager, financial planning and reporting **0111**
manager, fish culture **8257**
manager, fish farm **8257**
manager, fish hatchery **8257**
manager, fishery programs – government services **0412**
manager, fishing operations **0811**
manager, fitness centre **0651**
manager, fitness/health club **0651**
manager, flour mill **0911**
manager, food and beverage service **0631**
manager, food safety programs – government services **0411**
manager, food services **0631**
manager, forestry and logging **0811**
manager, forestry operations **0811**
manager, forestry programs – government services **0412**
manager, freight division **0713**
manager, freight traffic **0713**
manager, fund-raising campaign **0611**
manager, fur cleaning plant **0651**
manager, gas field operations **0811**
manager, gas supply operations **0912**
manager, goods and services tax **0412**
manager, grain elevator **6234**
manager, grain market analysis – government services **0412**
manager, greenhouse **8254**
manager, group home **0314**
manager, hairdressing salon **0651**
manager, hairstyling salon **0651**
manager, halfway house **0314**

manager, health and welfare – government services **0411**
manager, health club **0721**
manager, health programs operations – government services **0411**
manager, health spa **0651**
manager, health strategies – government services **0411**
manager, health studio **0651**
manager, holidays service **0651**
manager, home care service **0651**
manager, hotel **0632**
manager, hotel food and beverage service **0631**
manager, hotel front desk **0632**
manager, hotel front office **0632**
manager, human resources **0112**
manager, human resources planning **0112**
manager, immigration appeals – government services **0411**
manager, import traffic **0713**
manager, industrial construction **0711**
manager, industrial engineering department **0211**
manager, industrial relations **0112**
manager, in-flight service **6432**
manager, information and communications **0611**
manager, information service **0611**
manager, information systems **0213**
manager, information technology (IT) implementation **0213**
manager, information technology (IT) integration **0213**
manager, inn **0632**
manager, insurance sales **0121**
manager, integrated logistics **0713**
manager, internal audit services **0111**
manager, internal audits **0111**
manager, international banking **0122**
manager, international traffic **0713**
manager, IT (information technology) implementation **0213**
manager, IT (information technology) integration **0213**
manager, janitorial services **0651**
manager, job evaluation and salary research **0112**
manager, kennel **0651**
manager, labour organization **0314**
manager, labour relations **0112**
manager, landscape architecture **0212**
manager, landscaping **8255**
manager, language school **0312**
manager, laundry and dry cleaning **0651**
manager, laundry service **0651**
manager, lawn care service **8255**
manager, leasing – real estate **0121**
manager, legal firm **0123**
manager, leisure **0513**
manager, leisure programs **0513**
manager, leisure service **0513**
manager, liability trading **0121**
manager, life sciences program **0212**
manager, liquid waste facility **0912**
manager, livestock development **0212**
manager, livestock production programs **0212**
manager, livestock program development **0212**
manager, loans **0122**
manager, lodging house **0632**
manager, logging production **0811**
manager, logistics – transportation **0713**
manager, mail operations **0132**
manager, mail processing plant **0132**
manager, maintenance **0721**
manager, maintenance and service **0721**
manager, management consulting service **0123**
manager, management information system (MIS) **0213**
manager, manufacturers' association **0314**
manager, manufacturing **0911**
manager, manufacturing company **0911**
manager, manufacturing industry **0911**
manager, marina **0721**
manager, market research service **0123**
manager, marketing **0611**
manager, massage parlour **0651**
manager, mathematical services **0212**
manager, mathematics program **0212**
manager, mechanical engineering service **0211**
manager, media relations **0611**
manager, medical records **0114**
manager, men's hostel **0314**
manager, messenger service **0132**
manager, metalworks fabrication **0911**
manager, methods and procedures **0123**
manager, mill **0911**
manager, mine **0811**
manager, MIS (management information system) **0213**
manager, modelling school **0651**
manager, mortgage brokers **0121**
manager, mortgages **0122**
manager, motor transport **0713**
manager, movie theatre **0651**
manager, moving company **0713**
manager, multi-media department **0512**
manager, municipal taxation **0412**

manager, music academy **0651**
manager, music school **0651**
manager, Native centre **0314**
manager, natural sciences program **0212**
manager, network design **0213**
manager, network installation – telecommunications **0131**
manager, networks – telecommunications **0131**
manager, news department **0512**
manager, newspaper **0512**
manager, NGO (non-governmental organization) **0314**
manager, non-governmental organization (NGO) **0314**
manager, nursery **8254**
manager, nursing care – medical services **0311**
manager, nursing registry **0123**
manager, nursing services – medical services **0311**
manager, occupational health and safety **0112**
manager, ocean freight **0713**
manager, official languages **0112**
manager, oil well drilling **0811**
manager, oil well servicing **0811**
manager, operations – banking, credit and investment **0122**
manager, operations – manufacturing **0911**
manager, package tour sales **0611**
manager, paper mill **0911**
manager, parcel processing plant **0132**
manager, patient registration **0114**
manager, pay and benefits **0112**
manager, payroll service **0123**
manager, peat bog **0811**
manager, pension services **0111**
manager, pensions and benefits **0112**
manager, personal services – banking, credit and investment **0122**
manager, personal trust **0122**
manager, personnel **0112**
manager, personnel administration **0112**
manager, personnel agency **0123**
manager, personnel consulting service **0123**
manager, personnel services **0112**
manager, personnel training and development **0112**
manager, pest control service **0651**
manager, pet care services **0651**
manager, pet grooming establishment **0651**
manager, petroleum geology department **0212**
manager, petroleum research – securities **0121**
manager, pharmacy department – retail **0621**
manager, photographic studio **0621**
manager, physical sciences program **0212**
manager, pipeline construction **0711**
manager, placement agency **0123**
manager, placement office **0123**
manager, plant **0911**
manager, plant maintenance **0721**
manager, plant operations – postal service **0132**
manager, post office **0132**
manager, postal area **0132**
manager, postal zone **0132**
manager, postal zone facilities **0132**
manager, printing **0911**
manager, private investigation and security service **0123**
manager, procurement **0113**
manager, production – coal mining **0811**
manager, production control – postal service **0132**
manager, production engineering **0211**
manager, production operations **0911**
manager, professional athletes team **0513**
manager, professional football team **0513**
manager, professional hockey team **0513**
manager, professional sport team **0513**
manager, professional track-and-field team **0513**
manager, promotions **0611**
manager, public utilities **0912**
manager, publicity **0611**
manager, publishing **0512**
manager, purchasing contracts **0113**
manager, quality control – pharmaceutical products **0212**
manager, quality-control services **0911**
manager, quarry **0811**
manager, radio programming **0512**
manager, radio station **0512**
manager, rail transport **0713**
manager, railway rolling stock production **0911**
manager, raw materials production **0811**
manager, real estate office **0121**
manager, real estate sales **0121**
manager, realty taxation **0412**
manager, recreation **0513**
manager, recreation facility **0721**
manager, recreation programs **0513**
manager, recreation service **0513**
manager, recreational campground **0632**
manager, recruiting **0112**
manager, regional economic services – government services **0412**
manager, regional services – postal and courier services **0132**

manager, regional taxation **0412**
manager, reservations **0632**
manager, residential cleaning service **0651**
manager, resort **0632**
manager, restaurant **0631**
manager, retail sales **0621**
manager, revenue programs – government services **0412**
manager, rural development **0212**
manager, rural development program **0212**
manager, salary research and administration **0112**
manager, sales and advertising **0611**
manager, sales and marketing **0611**
manager, sales and publicity **0611**
manager, sales planning **0611**
manager, sales promotion **0611**
manager, sanitary sewer service **0912**
manager, sauna **0651**
manager, school board services **0413**
manager, school maintenance **0721**
manager, school of art **0651**
manager, school of technology **0312**
manager, scientific research **0212**
manager, scientific research department **0212**
manager, seasonal resort **0632**
manager, securities and investment **0121**
manager, security **0114**
manager, security department **0114**
manager, security service **0123**
manager, septic tank service **0651**
manager, sewage disposal **0912**
manager, sewage plant **0912**
manager, sewage treatment plant **0912**
manager, shipline **0713**
manager, shipping services **0713**
manager, shoe repair service **0651**
manager, shopping mall **0721**
manager, shopping mall maintenance **0721**
manager, social services planning – government services **0411**
manager, software engineering **0213**
manager, space programs – telecommunications **0131**
manager, sports facility **0721**
manager, stadium **0721**
manager, staff relations **0112**
manager, staff training and development **0112**
manager, statistical service **0212**
manager, steel mill **0911**
manager, student residence **0632**
manager, support services **0114**
manager, survey research – government services **0411**
manager, survey research service **0123**
manager, swimming pool maintenance service **0651**
manager, systems – computer systems **0213**
manager, systems development – computer systems **0213**
manager, tanning salon **0651**
manager, tax policy research – government services **0412**
manager, taxation **0412**
manager, team of professional athletes **0513**
manager, technical school **0312**
manager, telecommunications engineering service **0211**
manager, telecommunications services **0131**
manager, television station **0512**
manager, tennis court **0721**
manager, textile mill **0911**
manager, textile spinning mill **0911**
manager, textile spinning plant **0911**
manager, theatre company **0512**
manager, tire plant **0911**
manager, tobacco warehouse **0721**
manager, tool production department **0911**
manager, tourism development – government services **0412**
manager, tourism research – government services **0412**
manager, trade school **0312**
manager, trading floor **0121**
manager, traffic **0713**
manager, traffic engineering service **0211**
manager, traffic engineering service – telecommunications **0211**
manager, training and development **0112**
manager, transfer company **0713**
manager, transmission lines **0912**
manager, transport department **0713**
manager, transportation **0713**
manager, transportation and traffic **0713**
manager, transportation programs – government services **0412**
manager, travel and relocation department **0713**
manager, tree service **8255**
manager, truck wash **0651**
manager, trust company **0122**
manager, underwriting department **0121**
manager, university maintenance **0721**
manager, university residence **0632**
manager, urban transit system **0713**

manager, video production company **0512**
manager, vocational rehabilitation unit **0314**
manager, wage and salary administration **0112**
manager, warehouse **0721**
manager, warehousing **0721**
manager, water transport **0713**
manager, waterworks **0912**
manager, weed control service – agriculture **8252**
manager, weight-loss clinic **0651**
manager, wholesale establishment **0621**
manager, window washing service **0651**
manager, women's centre **0314**
manager, woodlands **0811**
manager, youth hostel **0632**
manager-coach, baseball **5252**
managing bartender **6452**
managing director **0114**
managing director, insurance **0121**
managing director, real estate sales **0121**
managing editor **0512**
managing editor – newspaper or periodical **0512**
managing supervisor – retail **0621**
managing supervisor, building **1224**
managing supervisor, customer service **0621**
managing supervisor, dental laboratory **0311**
managing supervisor, dining establishment **0631**
managing supervisor, leisure establishment **0513**
managing supervisor, real estate agents **0121**
managing supervisor, recreation establishment **0513**
managing supervisor, wholesale establishment **0611**
mandolin maker **5244**
mandrel builder – rubber products manufacturing **9423**
mangler tender – textile manufacturing **9443**
manicurist **6482**
manipulator machine operator – primary metal processing **9411**
manipulator operator – metal forging **9512**
mannequin artist **5223**
mannequin assembler **9498**
mannequin moulder – plastic manufacturing **9422**
mannequin wig maker **9498**
manual arts therapist **3235**
manual cleaner, sewer pipes **7621**
manual cleaner, sidewalks **7621**
manual compositor **1423**
manual concrete vibrator operator **7611**
manual moulder **9412**
manual sewer pipe cleaner **7621**
manual sidewalk cleaner **7621**
manual street cleaner **7621**
manual street sweeper **7621**
manual writer **5121**
manufactured home assembler **9493**
manufactured housing production worker **9493**
manufacturer's agent – wholesale (non-technical) **6411**
manufacturers' association analyst **4163**
manufacturers' association manager **0314**
manufacturer's representative – wholesale (non-technical) **6411**
manufacturer's sales representative **6221**
manufacturing accountant **1111**
manufacturing company chief executive officer **0016**
manufacturing company manager **0911**
manufacturing cost estimator **2233**
manufacturing engineer **2141**
manufacturing industry manager **0911**
manufacturing inspector, plastic products **9495**
manufacturing machinery assembly foreman/woman **7216**
manufacturing machinery fitter **7316**
manufacturing manager **0911**
manufacturing material inventory clerk **1473**
manufacturing operations manager **0911**
manufacturing operator – electronic equipment manufacturing **9483**
manufacturing order clerk **1473**
manufacturing orders clerks supervisor **1215**
manufacturing painter **9496**
manufacturing plant manager **0911**
manufacturing plant superintendent **0911**
manufacturing research director **0212**
manufacturing technician **2233**
manufacturing technician – industrial engineering **2233**
manufacturing technologist **2233**
manuscript editor **5122**
manuscript proofreader **1452**
map clerk **1441**
map draftsman/woman **2255**
map editor **2255**
map reproduction technician – military **2255**
maple products foreman/woman – agriculture **8253**
maple syrup maker **8431**
maple syrup producer **8251**
maple tapping worker **8431**
mapping engineer **2131**
mapping pilot **2271**
mapping technician **2255**

maraschino cherry processor – food and beverage processing **9461**
marble and terrazzo contractor-setter **7219**
marble and terrazzo setter-contractor **7219**
marble and terrazzo setting contractor **7219**
marble carver – concrete, clay and stone forming **9414**
marble cutter **9414**
marble layer **7283**
marble mason **7283**
marble mechanic **7283**
marble polisher, hand **9414**
marble polisher, machine – stone products **9414**
marble setter **7283**
marble setter helper **7611**
marble setters foreman/woman **7219**
marble setting foreman/woman **7219**
marble tilesetter **7283**
margarine blender **9461**
margarine clarifier – food and beverage processing **9461**
margarine processor **9461**
margin calculation clerk – financial sector **1434**
marina attendant **6621**
marina manager **0721**
marina operator **0721**
marina worker **6621**
marine and aircraft underwriter – insurance **1234**
marine biological technician **2221**
marine biologist **2121**
marine biology technician **2221**
marine biology technologist **2221**
marine boilermaker **7262**
marine cargo surveyor **2262**
marine claims adjuster – insurance **1233**
marine craft plastic panelling assembler **9495**
marine culture technologist **2221**
marine damage surveyor **2262**
marine drafting supervisor **2253**
marine draftsperson, electrical **2253**
marine electrician **7242**
marine electrician – military **7242**
marine electrician helper **7612**
marine electricians foreman/woman **7212**
marine engine mechanic **7311**
marine engine mechanic apprentice **7311**
marine engine oiler **7434**
marine engine quality-control assembly inspector **9486**
marine engineer **2148**
marine engineer officer **2274**
marine engineer officer – military **2274**
marine engineer officer – water transport **2274**
marine engineer officer, Coast Guard vessel **2274**
marine engineer officer, offshore drilling rig **2274**
marine engineer officer-cadet **2274**
marine engineer, chief – water transport **2274**
marine engineering artificer – military **7434**
marine engineering mechanic **7434**
marine engineering mechanic – military **7434**
marine engineering technician **7434**
marine engineering technician – military **7434**
marine engineering technician, mechanical **2232**
marine engineering technologist **2232**
marine equipment electrician **7242**
marine farming technologist **2221**
marine geologist **2113**
marine geoscience technologist **2212**
marine hydrobiologist **2121**
marine insurance adjuster **1233**
marine mammal trainer **2121**
marine mechanical engineer **2132**
marine oiler **7434**
marine operations manager **0713**
marine operations superintendent **0713**
marine pipe fitters foreman/woman **7213**
marine pipefitter **7252**
marine plant gatherer **8613**
marine plumber **7251**
marine radio operator – military **1475**
marine railway operator **7421**
marine repair technician **7383**
marine second engineer – water transport **2274**
marine senior engineer – water transport **2274**
marine service foreman/woman – engine repair **7216**
marine steamfitter **7252**
marine steel fitter **7263**
marine superintendent **0713**
marine surveyor **2262**
marine systems engineer **2148**
marine traffic controller **2275**
marine traffic regulator **2275**
marine transportation operations manager **0713**
marine underwriter – insurance **1234**
marine wireman/woman **7242**
marionette handler **5232**
marital counsellor **4153**
maritime art painter **5136**
maritime surface and subsurface officer – military **2273**
marker – laundry and dry cleaning **6681**
marker – postsecondary teaching **4122**
marker – primary metal processing **9611**

marker and cutter, upholstery **9452**
marker, cartons **9619**
marker, crates **9619**
marker, diamonds **7344**
marker, lumber **9436**
marker, ophthalmic lenses **3414**
marker, pockets – garment manufacturing **9619**
marker, products **9619**
marker, shoe parts **9619**
marker, stone layouts **9414**
market analyst – non-financial **4163**
market development director **0412**
market development manager **0611**
market garden worker **8431**
market gardener **8251**
market research analyst **4163**
market research service manager **0123**
market research specialist **4163**
market researcher **4163**
marketing analysis specialist **4163**
marketing analyst **4163**
marketing analyst – non-financial **4163**
marketing consultant **4163**
marketing consultant – wholesale **4163**
marketing co-ordinator **0611**
marketing director **0611**
marketing division director, sales agency **0611**
marketing executive **0611**
marketing manager **0611**
marketing project officer **4163**
marketing research specialist **4163**
marketing researcher **4163**
marketing specialist – advertising **1122**
marketing teacher – college or vocational institute **4131**
marketing vice-president – airline **0016**
marketing vice-president – clerical staff services **0013**
marketing vice-president – financial, communications and other business services **0013**
marketing vice-president – goods production, utilities, transportation and construction **0016**
marketing vice-president – grocery store chain **0015**
marketing vice-president – health, education, social and community services and membership organizations **0014**
marketing vice-president – trade, broadcasting and other services **0015**
markup person **1423**
markup person – typesetting **1423**
marquetry worker – furniture manufacturing **9492**
marriage and family therapist **4153**
marriage consultant **4153**
marriage counsellor **4153**
marriage therapist **4153**
marshmallow maker **9461**
martial arts instructor **5254**
marzipan maker **9461**
mash dryer – food and beverage processing **9461**
mash operator – food and beverage processing **9461**
mashgiach – food and beverage processing **9465**
masker **9619**
mason, brick and stone **7281**
mason, cement **7282**
mason, concrete **7282**
mason, marble **7283**
mason, refractory **7281**
masonry inspector **2264**
masonry pointer and caulker **7611**
masonry silo erector **7281**
mason's helper **7611**
mass spectrometer technician **2211**
mass spectrometer technologist **2211**
mass spectrometry technician **2211**
mass transit services analyst **2153**
massage parlour manager **0651**
massage therapist (MT) **3235**
massager **6484**
masseur/masseuse **6484**
masso-kinesitherapist **3235**
massotherapist **3235**
master – inland waters **2273**
master – minor waters **2273**
master – water transport **2273**
master chef **6241**
master console operator, computer **2281**
master control room (MCR) equipment operator – broadcasting **5224**
master control room (MCR) technician – broadcasting **5224**
master dyer – textiles **2211**
master glass blower **5244**
master glassmaker **5244**
master groomer, pets **6483**
master machinist **7231**
master mariner **2273**
master mechanic, mining equipment **7311**
master of ceremonies (MC) **5231**
master operator – chemical processing **9232**
master pattern cutter **9452**
master record cutter **5225**

master tailor **7342**
master, chorus **5132**
master, dredge **2273**
master, ferryboat **2273**
master, fishing vessel **8261**
master, hovercraft **2273**
master, riding **5254**
master, self-propelled drilling rig **2273**
master, ship **2273**
match head maker **9421**
match inspector **9498**
matchbook comb-cutting machine tender **9435**
matchbook folding-stapling machine tender **9435**
matchbook inspector **9498**
matcher – furniture finishing and refinishing **9494**
matcher and assembler, wooden barrel headings **9493**
mate – water transport **2273**
mate, fishing vessel **8261**
mate, home trade **2273**
mate, inland navigation **2273**
mate, merchant navy **2273**
mate, self-propelled drilling rig **2273**
mate, ship **2273**
material and services purchasing manager **0113**
material checker **1473**
material clerks supervisor **1215**
material control co-ordinator **1215**
material control manager **0114**
material control officer – military **0114**
material co-ordinator **1473**
material estimator **1473**
material handler **7452**
material handler – manufacturing and warehousing **7452**
material handling equipment mechanic **7311**
material keeper **1472**
material management officer **1225**
material manager **0113**
material mender **9451**
material purchasing officer **1225**
material-handling equipment assembly foreman/woman **9226**
material-handling equipment salesperson **6221**
materialman/woman – underground mining **8411**
materials and testing engineer, civil **2131**
materials co-ordinator **1225**
materials engineer **2142**
materials engineering scientist **2115**
materials handling technician **2233**
materials scientist **2115**
materials technician – military **7263**
materials testing technician **2231**
materials testing technologist **2231**
mathematical biophysicist **2111**
mathematical economist **4162**
mathematical services manager **0212**
mathematical statistician **2161**
mathematician **2161**
mathematician, research **2161**
mathematics co-ordinator – education **4166**
mathematics department director **0212**
mathematics department head – secondary school **4141**
mathematics professor – university **4121**
mathematics program manager **0212**
mathematics teacher – college **4131**
mathematics teacher – college or vocational institute **4131**
mathematics teacher – secondary school **4141**
matron – correctional service **6462**
matting inspection foreman/woman – rubber manufacturing **9214**
matting inspection supervisor – rubber products manufacturing **9214**
mattress assembler – furniture manufacturing **9492**
mattress inspector **9492**
mattress maker **9492**
mattress manufacturing foreman/woman **9224**
mattress manufacturing inspector **9492**
mattress sewing machine operator **9442**
mayor **0011**
MC (master of ceremonies) **5231**
MCR (master control room) equipment operator **5224**
MCR (master control room) technician – broadcasting **5224**
MD (doctor of medicine) **3112**
meal attendant, hospital **6641**
meals-on-wheels worker **4212**
measurer **7611**
measures technician **2231**
measuring machine tender – hide and pelt processing **9453**
meat boner **9462**
meat buyer **6233**
meat canner **9461**
meat chef **6241**
meat chopper – food and beverage processing **9461**
meat chopper – meat packing plant **9462**
meat clerk, supermarket **6421**
meat cook – food and beverage processing **9461**

meat counter clerk **6421**
meat curer **9461**
meat cutter – meat packing plant **9462**
meat cutter – retail or wholesale **6251**
meat cutting plant foreman/woman **9213**
meat department manager – food store **0621**
meat department manager – retail **0621**
meat department supervisor **6211**
meat dresser – meat packing plant **9462**
meat dryer **9617**
meat grader **9465**
meat grinder – food and beverage processing **9461**
meat hygiene inspector **2222**
meat inspection supervisor **2222**
meat inspector **2222**
meat loaf trimmer **9617**
meat manager – food store **6211**
meat mincer – food and beverage processing **9461**
meat mincer – packaging **9461**
meat mixer **9461**
meat mould sealer **9617**
meat mould stripper **9617**
meat moulder – food and beverage processing **9461**
meat packager **9617**
meat packer – food and beverage processing **9617**
meat packing supervisor **9213**
meat pickler **9461**
meat portion cutter – meat packing plant **9462**
meat portion cutter – retail or wholesale **6251**
meat press tender **9617**
meat roll tier – food and beverage processing **9462**
meat salter **9461**
meat sawyer – meat packing plant **9462**
meat tenderizer – food and beverage processing **9462**
meat trimmer – meat packing plant **9462**
meat vacuum wrapper **9617**
meat washer **9617**
meat wrapper **9617**
meat, poultry and fish chef **6241**
meat-packing plant labourer **9617**
meat-rolling machine tender **9617**
mechanic – motor vehicle manufacturing **7321**
mechanic – utilities **7311**
mechanic helper **7612**
mechanic helper, air conditioning **7612**
mechanic helper, heavy equipment **7612**
mechanic helper, utilities instruments **7612**
mechanic, aircraft **7315**
mechanic, aircraft electrical systems **2244**
mechanic, aircraft electronic systems **2244**
mechanic, aircraft engine overhaul **7315**
mechanic, aircraft engine repair and overhaul **7315**
mechanic, aircraft engines **7315**
mechanic, aircraft mechanical systems **7315**
mechanic, airframes **7315**
mechanic, automobile **7321**
mechanic, backhoe **7312**
mechanic, bakery machinery **7311**
mechanic, bicycles **7445**
mechanic, bus **7321**
mechanic, canal equipment **7311**
mechanic, car **7321**
mechanic, central air conditioning **7313**
mechanic, chemical process equipment **7311**
mechanic, circuit breaker **7333**
mechanic, commercial air conditioning **7313**
mechanic, concentrating plant **7311**
mechanic, construction equipment **7312**
mechanic, dentures **3221**
mechanic, derricks **7311**
mechanic, domestic sewing machine **7445**
mechanic, earthmoving equipment **7312**
mechanic, electric motors **7333**
mechanic, elevator **7318**
mechanic, excavating equipment **7312**
mechanic, farm equipment **7312**
mechanic, farm machinery **7312**
mechanic, farm tractors **7312**
mechanic, gas pipes **7253**
mechanic, gas turbine engines **7315**
mechanic, gasoline-powered lawn mowers **7335**
mechanic, gas-powered small engines **7335**
mechanic, gum-wrapping machines **7311**
mechanic, heating and air conditioning **7313**
mechanic, heating and cooling **7313**
mechanic, heavy diesel engines **7312**
mechanic, heavy equipment **7312**
mechanic, heavy equipment – diesel engine **7312**
mechanic, HVAC (heating, ventilation and air conditioning) **7313**
mechanic, inboard-outboard motors **7335**
mechanic, industrial **7311**
mechanic, industrial hoists **7311**
mechanic, industrial instrument **2243**
mechanic, juke boxes **7445**
mechanic, knitting machines **7317**
mechanic, locomotive **7312**
mechanic, looms – textile manufacturing **7317**

mechanic, maintenance **7311**
mechanic, marble **7283**
mechanic, material handling equipment **7311**
mechanic, mine hoist machinery **7311**
mechanic, mobile logging equipment **7312**
mechanic, mobile mining equipment **7312**
mechanic, motor boats **7335**
mechanic, motor vehicle **7321**
mechanic, oil drill rig **7311**
mechanic, oil pump station **7311**
mechanic, optical lab – retail **3414**
mechanic, ore-processing equipment **7311**
mechanic, outboard motors **7335**
mechanic, packaging machines **7311**
mechanic, plant equipment **7311**
mechanic, plastics-processing equipment **7311**
mechanic, power plant installation – aircraft assembly **9481**
mechanic, preflight **7315**
mechanic, printing machinery **7311**
mechanic, processing plant **7311**
mechanic, production machinery **7311**
mechanic, production tooling **7311**
mechanic, refrigeration **7313**
mechanic, refrigeration and air conditioning **7313**
mechanic, repairer **7312**
mechanic, rigs **7311**
mechanic, road tests – motor vehicle manufacturing **9482**
mechanic, roofing **7291**
mechanic, rubberizing machines **7311**
mechanic, scales **7445**
mechanic, sewage treatment plant **7311**
mechanic, sideboom **7312**
mechanic, small engines **7335**
mechanic, small engines and equipment **7335**
mechanic, stationary farm equipment **7311**
mechanic, streetcars **7314**
mechanic, textile machinery **7317**
mechanic, textile machines **7317**
mechanic, tobacco-processing machines **7311**
mechanic, tractor **7312**
mechanic, truck **7321**
mechanic, upgrading plant **7311**
mechanic, utility plant maintenance **7311**
mechanic, vending machines **7445**
mechanic, water filtration plant **7311**
mechanic, welding machines **7311**
mechanic, wing marry-up – aircraft assembly **9481**
mechanic, wing tanks – aircraft assembly **9481**
mechanical and fuel systems overhaul and repair mechanic, aircraft **7315**
mechanical assembler **9486**
mechanical assistant – water transport **7434**
mechanical assistant, engine room – ships **7434**
mechanical assistant, ship's engine room **7434**
mechanical building draftsperson **2253**
mechanical composition foreman/woman – printing **7218**
mechanical design draftsperson **2253**
mechanical design engineer **2132**
mechanical draftsperson **2253**
mechanical engineer **2132**
mechanical engineer, gas utilization **2132**
mechanical engineer, marine **2132**
mechanical engineer, projects **2132**
mechanical engineering design technologist **2232**
mechanical engineering development technologist **2232**
mechanical engineering equipment designer **2232**
mechanical engineering professor – university **4121**
mechanical engineering service manager **0211**
mechanical engineering technician **2232**
mechanical engineering technologist **2232**
mechanical equipment engineering assistant **2232**
mechanical equipment repair inspection foreman/woman **7216**
mechanical equipment repair inspectors foreman/woman **7216**
mechanical estimator – construction **2234**
mechanical fitter **7316**
mechanical harvester and forwarder operator **8241**
mechanical harvester operator – logging **8241**
mechanical hoist operator **7371**
mechanical hydraulic engineer **2132**
mechanical inspector – motor vehicle manufacturing **9482**
mechanical inspectors foreman/woman **7216**
mechanical maintainer, heavy water plant **7311**
mechanical maintainer, nuclear generating station **7311**
mechanical maintenance engineer **2132**
mechanical maintenance foreman/woman – utilities **7216**
mechanical maintenance supervisor **7216**
mechanical maintenance supervisor – manufacturing **7216**
mechanical marine engineering technician **2232**
mechanical meter repairer **7445**
mechanical power engineer **2132**

mechanical press operator – metal products manufacturing **9514**
mechanical press operator helper – metal products manufacturing **9612**
mechanical pump assembler **9486**
mechanical quality assurance inspector – motor vehicle manufacturing **9482**
mechanical repairer, motor vehicle **7321**
mechanical services superintendent **0721**
mechanical sweeper operator – public works **7422**
mechanical systems inspector, aircraft repair and overhaul **7315**
mechanical systems technician – military **7351**
mechanical tamper operator – railway **7432**
mechanical technologist **2232**
mechanical technology teacher – technological institute **4131**
mechanical test technician – motor vehicle manufacturing **9482**
mechanical tester, insulators **9619**
mechanical tree processor and loader operator **8241**
mechanical tree processor operator – logging **8241**
mechanical upgrader – motor vehicle manufacturing **7321**
mechanic-fitter helper **7612**
mechanic-repairer, looms – textile manufacturing **7317**
mechanics foreman/woman **7216**
mechanic's helper – automotive **7612**
mechanics physicist **2111**
mechanistic toxicologist **2121**
media advertising manager **0611**
media buyer **1225**
media co-ordinator **5124**
media estimator **1225**
media events co-ordinator **5124**
media relations co-ordinator **5124**
media relations director **0611**
media relations manager **0611**
media relations officer **5124**
media time and space buyer **1225**
media time sales representative **6411**
mediator – labour relations **1121**
medic, drilling rig **3234**
medical aide **3413**
medical assistant (health support services) – military **3414**
medical assistant (licensed practical nurse) – military **3233**
medical assistant (paramedic) – military **3234**
medical assistant (supporting health services) – military **3414**
medical associate officer – military **0311**
medical bacteriologist **3111**
medical biochemist **2112**
medical biochemist – medicine **3111**
medical biophysicist **2111**
medical care technician, newborns **3234**
medical chemist **2112**
medical claims assessor – insurance **1233**
medical clinic assistant **3414**
medical clinic director **0311**
medical clinic receptionist **1414**
medical dictatypist **1244**
medical director **0311**
medical doctor **3112**
medical electrophysiology technician **3218**
medical engineering biophysicist **2111**
medical equipment and supplies salesperson **6221**
medical examiner **3111**
medical geneticist **3111**
medical genetics specialist **3111**
medical illustrator **5241**
medical information assistant **1222**
medical instrument sterilizer **3414**
medical instruments repairer **2241**
medical instruments sales agent **6221**
medical intensive care nurse **3152**
medical laboratory aide **3212**
medical laboratory assistant **3212**
medical laboratory equipment repairer **2241**
medical laboratory helper **3212**
medical laboratory supervisor **3211**
medical laboratory technical assistant **3212**
medical laboratory technical supervisor **3211**
medical laboratory technician **3212**
medical laboratory technologist **3211**
medical librarian **5111**
medical material handler **3414**
medical microbiologist **3111**
medical missionary **3112**
medical office assistant **1414**
medical office secretary-receptionist **1414**
medical officer (general practitioner) – military **3112**
medical officer (specialist) – military **3111**
medical officer of health (MOH) **3112**
medical officer of health, city – government services **0411**
medical officer, civil aviation **3112**
medical oncologist **3111**
medical oncology specialist **3111**

medical orderly **3413**
medical parasitologist **3111**
medical parasitology biologist **2121**
medical pathologist **3111**
medical photographer **5221**
medical physicist **2111**
medical physiologist **3111**
medical radiation technologist **3215**
medical radiation technologists supervisor **3215**
medical receptionist **1414**
medical records clerk **1413**
medical records department manager **0114**
medical records management program teacher – college **4131**
medical records management program teacher – community college **4131**
medical records manager **0114**
medical records supervisor **1211**
medical records technician **1413**
medical records technicians supervisor **1211**
medical records unit supervisor **1211**
medical sciences professor – university **4121**
medical secretary **1243**
medical social worker **4152**
medical sociologist **4169**
medical sonographer **3216**
medical sonographer – military **3216**
medical sonographers supervisor **3216**
medical specialist **3111**
medical statistician **2161**
medical stenographer **1243**
medical supply attendant **1472**
medical supply clerk **1472**
medical technician **3234**
medical technician, drilling rig **3234**
medical technologist – medical laboratory **3211**
medical technologists supervisor **3211**
medical technology teacher – technological institute **4131**
medical terminologist **5125**
medical transcriptionist **1244**
medical translator **5125**
medical vice-president – health services **0014**
medical warden, drilling rig **3234**
medicine professor – university **4121**
medicine, chief of **0311**
medium **6484**
meeting co-ordinator **1226**
meeting planner **1226**
mehndi tattoo artist **6482**
melt shop helper **9611**
melt shop labourer **9611**
melter – foundry **9412**
melter – primary metal processing **9231**
melter helper – primary metal and mineral products processing **9611**
melter tender – food and beverage processing **9461**
melting and roasting department supervisor **9211**
melting and roasting foreman/woman – primary metal and mineral products processing **9211**
melting and roasting operations foreman/woman – primary metal and mineral products processing **9211**
melting-furnace and roasting-furnace foreman/woman – primary metal and mineral products processing **9211**
member of Legislative Assembly (MLA) **0011**
member of Parliament (MP) **0011**
member of the House of Assembly (MHA) **0011**
member of the National Assembly (MNA) **0011**
member of the Provincial Parliament (MPP) **0011**
membership sales representative **6411**
membership secretary **1241**
membership services manager **0314**
memorial designer **5243**
memorial salesperson – retail **6421**
mender, garment – garment manufacturing **9619**
mender, garment – sewing **9451**
mender, textile products **9451**
men's and women's wear patternmaker **5245**
men's clothing sales clerk **6421**
men's clothing salesperson – retail **6421**
men's hairdresser **6271**
men's hostel manager **0314**
men's wear sales clerk **6421**
mental health counsellor **4153**
mental health nurse **3152**
mental health programs consultant **4165**
mental health residential care program manager **0311**
mental health worker **4212**
mental retardation worker **4212**
mental telepathist **6484**
mercerizer – textile manufacturing **9443**
mercerizer machine operator – textile manufacturing **9443**
merchandise clerks supervisor **1212**
merchandise purchasing director **0113**
merchandise purchasing manager **0113**
merchandiser **6233**
merchant miller – food and beverage processing **9461**
merchant navy mate **2273**

mercury recoverer – chemical processing **9421**
merry-go-round operator **6671**
mesh-welding machine operator **7265**
mess cook **6242**
mess waiter/waitress **6453**
message carrier **1463**
message deliverer **1463**
messenger **1463**
messenger service manager **0132**
messenger service representative **1461**
messenger service supervisor **1214**
messenger, bank **1463**
messenger-clerk **1463**
metal and woodworking machinery manufacturing foreman/woman **7216**
metal annealing tender **9411**
metal arts worker **5244**
metal awning machine operator **9516**
metal band saw operator **9511**
metal base blocker **9472**
metal bluer **9497**
metal bluing cleaner – metal products manufacturing **9612**
metal brazier and heater **7265**
metal buffer – metal products manufacturing **9612**
metal buffers foreman/woman **9226**
metal buffing foreman/woman **9226**
metal cabinet assembler **9492**
metal cable machine operator **9516**
metal cable maker **9516**
metal cable maker operator **9516**
metal cable stretcher and tester **9516**
metal casket assembler **9492**
metal caster – foundry **9412**
metal casters, moulders and coremakers foreman/woman **9211**
metal casting finisher **9612**
metal casting, moulding and coremaking foreman/woman **9211**
metal chair assembler **9492**
metal cleaner – metal products manufacturing **9612**
metal cleaner, immersion – metal products manufacturing **9612**
metal coater **9497**
metal coater operator **9497**
metal coating-equipment operator **9497**
metal cut-off saw operator **9514**
metal dealer **0611**
metal dental technician **3223**
metal dipper **9497**
metal door frame assembler **9498**
metal electroplater **9497**
metal electroplating inspector **9497**
metal engraver **5244**
metal extrusion press operator – primary metal processing **9411**
metal fabricating machine operator **9514**
metal fabrication worker **9612**
metal fabricator **7263**
metal fabricator – structural metal and platework **7263**
metal fabricator (fitter) **7263**
metal fence erector **7441**
metal filer, hand **9612**
metal finish and touch-up repairer – motor vehicle manufacturing **7322**
metal finisher – motor vehicle manufacturing **7322**
metal fitters foreman/woman **7214**
metal floor lamp maker **9516**
metal form setter – construction **7611**
metal frame moulder – foundry **9412**
metal furniture assembler **9492**
metal furniture assembly foreman/woman **9224**
metal furniture inspector **9492**
metal furniture model maker **7261**
metal furniture patternmaker **7261**
metal furniture repairer **9494**
metal hardener – primary metal processing **9411**
metal hardware installer – furniture manufacturing **9492**
metal heater – primary metal processing **9231**
metal heater operator **9231**
metal heat-treating foreman/woman – primary metal processing **9211**
metal impregnator – primary metal processing **9611**
metal inert gas (MIG) welder **7265**
metal lather **7284**
metal locker assembler **9492**
metal melter **9231**
metal mixer – primary metal processing **9411**
metal mixer operator – primary metal processing **9411**
metal mould finisher **7232**
metal mould maker **7232**
metal nut former **9516**
metal nut maker **9516**
metal parts inspector **9514**
metal patternmaker **7232**
metal patternmaker apprentice **7232**
metal physicist **2111**

metal pickler operator helper **9612**
metal pin maker **9516**
metal pipe cutter, machine **9516**
metal plater-polisher **9497**
metal plating-equipment operator **9497**
metal pointer operator – primary metal processing **9411**
metal polisher helper **9612**
metal polisher, automatic machine **9516**
metal pourer – metal processing **9411**
metal pourer helper – primary metal processing **9611**
metal powder lubricator finisher **9611**
metal power saw operator **9514**
metal preparation lead hand – structural metal and platework **7263**
metal processing inspector **9415**
metal product spray painter **9496**
metal products assembler **9498**
metal products inspection and testing foreman/woman **9226**
metal products manufacturing machine operator **9516**
metal products salesperson **6221**
metal reclaimer **9411**
metal repairer – motor vehicle manufacturing **7322**
metal roaster – primary metal processing **9231**
metal rolling foreman/woman **9211**
metal roofer **7291**
metal roofer helper – construction **7611**
metal saw tooth grinder **9511**
metal sawing machine operator **9514**
metal scaffold erector **7611**
metal screened door and window maker **9516**
metal shapers foreman/woman **7214**
metal shipwright **7263**
metal shipwright foreman/woman **7214**
metal smelter **9231**
metal smelting, converting and refining foreman/woman **9211**
metal solderer **7265**
metal spinner **9514**
metal sponge machine tender **9516**
metal sponge maker **9516**
metal spray operator **9497**
metal sprayer **9497**
metal straightener and heater **7265**
metal strength tester – primary metal processing **9415**
metal structure erector **7264**
metal structure fitter helper **9612**
metal table assembler **9492**
metal table saw operator **9514**
metal tack maker **9516**
metal tensile strength tester – primary metal processing **9415**
metal trim erector helper **7611**
metal tube marker – primary metal processing **9611**
metal upgrader – motor vehicle manufacturing **7322**
metal wall framing installer **7264**
metal welder **7265**
metal works fabrication manager **0911**
metal-blade-sharpener operator **9516**
metal-bonding equipment operator **9516**
metal-dipping equipment operator **9497**
metal-extruding and metal-drawing foreman/woman **9211**
metal-fabricating shop helper **9612**
metal-forming machine set-up operator **9514**
metal-forming machine tender **9514**
metal-leaf gilder **9496**
metallizer **9497**
metallographer **2115**
metallurgical control analyst **2212**
metallurgical engineer **2142**
metallurgical engineering professor – university **4121**
metallurgical engineering technician **2212**
metallurgical engineering technologist **2212**
metallurgical technologist **2212**
metallurgist **2115**
metallurgy professor – university **4121**
metal-machining inspection foreman/woman **7211**
metal-mould and metal-pattern makers foreman/woman **7211**
metal-mould and metal-pattern makers supervisor **7211**
metal-pipe cutter operator **9516**
metal-pipe-cutter machine operator **9516**
metals conservator **5112**
metals technician – military **7261**
metal-sheathed insulation former **9498**
metal-stamping press operator **9514**
metal-twisting machine tender **9516**
metalwork forming, shaping and installing contractor **7214**
metalworker, hand **5244**
metalworking machine helper **9612**
metalworking machine operator **9514**

metalworking machine operators foreman/woman **9226**
metalworking machine setter **9514**
metalworking machine set-up man/woman **9514**
metalworking machine set-up operator **9514**
metalworking machinery mechanic **7311**
metalworking weaver – metal products manufacturing **9516**
meteorological aide **2213**
meteorological inspector **2213**
meteorological technician **2213**
meteorological technician – military **2213**
meteorologist **2114**
meteorologist, air quality **2114**
meteorology officer – military **2114**
meteorology professor – university **4121**
meter assembler **9498**
meter engineer **2133**
meter installer – electric power systems **7244**
meter installers and repairers foreman/woman **7212**
meter reader **1411**
meter records clerk **1413**
meter repairer **7445**
meter servicer **7445**
meter shop foreman/woman **7216**
metering technologist **2241**
methods and cost analyst **1122**
methods and procedures analyst **1122**
methods and procedures manager **0123**
methods and procedures manager – business services **0123**
methods designer **2233**
methods engineer **2141**
Métis development programs regional director – government services **0411**
metrics technologist **2241**
metrologist **2111**
metrology engineer **2133**
metrology technician **2241**
metrology technologist **2241**
metropolitan council chair **0011**
MHA (member of the House of Assembly) **0011**
mica capacitor assembler **9483**
mica crusher tender **9411**
mica plate tender **9411**
mica press tender **9411**
mica processing foreman/woman **9211**
mica products maker **9484**
mica sheet laminator **9411**
mica sheet salvager **9411**
mica splitter **9411**
mica trimmer **9411**
microbiological technician **2221**
microbiologist **2121**
microbiologist, veterinary **3114**
microbiology quality control technologist **2221**
microbiology technician (except medical) **2221**
microbiology technologist – medical laboratory **3211**
microbiology technologist (except medical) **2221**
microcircuit assembler **9483**
microeconomic policy development director – government services **0412**
microelectronic circuit fabricator **9483**
microelectronics engineer **2133**
microfilm camera operator **1413**
microfilm mounter **1413**
microfilm records searcher **1413**
microfilmer **1413**
micropaleontologist **2113**
microprocessor designer and application engineer **2147**
microwave facilities manager – telecommunications **0131**
microwave maintenance technician **2241**
microwave physicist **2111**
microwave system foreman/woman **7212**
microwave systems engineer **2147**
microwave transmission systems engineer **2147**
midwife **3232**
MIG (metal inert gas) welder **7265**
military air traffic control officer **2272**
military engineer – civil **2131**
military engineering officer – civil **2131**
military historian **4169**
military medical officer (general practitioner) **3112**
military pilot **2271**
military police officer **6261**
military policeman/woman **6261**
milk and cream receiver – food and beverage processing **1471**
milk deliverer **7414**
milk dryer – food and beverage processing **9461**
milk grader **9465**
milk inspector **2222**
milk pasteurizer – food and beverage processing **9461**
milk powder grinder **9617**
milk processing foreman/woman **9213**
milk processing plant foreman/woman **9213**
milk production labourer **8431**
milk receiver-tester **9465**

milk sampler **9617**
milking machine salesperson **6221**
milking machine tender **8431**
milking services contractor **8252**
milkman/woman **7414**
milk-processing equipment operator – food and beverage processing **9461**
mill carpenter **7271**
mill charger – chemical processing **9613**
mill electrician **7242**
mill helper – primary metal and mineral products processing **9611**
mill labourer – mineral products processing **9611**
mill maintenance mechanic **7311**
mill manager **0911**
mill manager, textile spinning **0911**
mill mechanic helper **7612**
mill operator – rubber processing **9423**
mill operator – rubber products manufacturing **9423**
mill roll grinder – metal products manufacturing **9612**
mill roll tester – chemical processing **9421**
mill superintendent **0911**
mill tender – chemical processing **9421**
mill tender – clay products **9414**
mill tender – rubber products manufacturing **9423**
milled rubber cooler **9615**
miller – food and beverage processing **9461**
miller, saw blades **9516**
miller, wood flour **9434**
milliner **7342**
millinery foreman/woman – fabric, fur and leather products manufacturing **9225**
millinery maker **7342**
milling machine operator – metal machining **9511**
milling machine operator – mineral and metal processing **9411**
milling machine setter **9511**
milling machine set-up operator – metal machining **9511**
milling plant foreman/woman – primary metal and mineral products processing **9211**
millroom foreman/woman – rubber products manufacturing **9214**
millroom operator – rubber products manufacturing **9423**
millroom supervisor – rubber products manufacturing **9214**
millstone cutter – stone products **9414**
millwork assembler – wood products manufacturing **9493**
millwork assemblers foreman/woman – wood products manufacturing **9227**
millwork assembly supervisor **9227**
millwright **7311**
millwright apprentice **7311**
millwright foreman/woman **7216**
millwright helper **7612**
millwright industrial **7311**
millwright, construction **7311**
mime **5135**
mimeograph operator **1411**
mimic **5232**
mincemeat maker **9461**
mine analyst **2212**
mine attendant **8411**
mine captain **8221**
mine carpenter **7271**
mine check weigher **8614**
mine construction inspector **2264**
mine construction worker **8411**
mine design engineer **2143**
mine development engineer **2143**
mine development technologist **2212**
mine dispatcher **1475**
mine draftsperson **2253**
mine electrician **7242**
mine examiner **2263**
mine foreman/woman **8221**
mine geologist **2113**
mine guide **6441**
mine helper – underground mining **8614**
mine hoist industrial mechanic **7311**
mine hoist machinery mechanic **7311**
mine hoist repairer **7311**
mine inspector, construction **2264**
mine labourer **8614**
mine layout engineer **2143**
mine locomotive repairman/woman **7312**
mine manager **0811**
mine mechanic **7311**
mine motorman/woman **8411**
mine planning engineer **2143**
mine production engineer **2143**
mine production technician **2212**
mine safety engineer **2143**
mine safety inspector **2263**
mine superintendent **0811**
mine supervisor **8221**
mine survey technician **2212**
mine survey technologist **2212**
mine timberman/woman **8411**
mine ventilation engineer **2143**

miner **8231**
miner helper – raise mining **8411**
miner helper – underground mining **8614**
miner operator **8231**
mineral dressing engineer **2143**
mineral engineer **2143**
mineral sampler – mineral products processing **9415**
mineral technician **2212**
mineral technologist **2212**
mineral technology teacher – college of applied arts and technology **4131**
mineralogist **2113**
mineralogy technician **2212**
mineralogy technologist **2212**
mines exploration engineer **2143**
mingler tender **9461**
minicomputer systems programmer **2174**
mini-golf attendant **6671**
mining engineer **2143**
mining engineering technician **2212**
mining engineering technologist **2212**
mining equipment master mechanic **7311**
mining equipment sales engineer **6221**
mining equipment sales representative **6221**
mining geologist **2113**
mining industry development consultant **4163**
mining machine operator **8231**
mining machinery fitter **7316**
mining machinery mechanic **7311**
mining operations director **0811**
mining operations manager **0811**
mining rescue instructor **4131**
mining research director **0212**
mining shovel operator (except underground) **7421**
mining survey technician **2212**
mining survey technologist **2212**
mining technician **2212**
mining technologist **2212**
minister – government **0011**
minister – religion **4154**
ministerial assistant **1222**
minivan assembler – motor vehicle manufacturing **9482**
mink tail slitter – fur products manufacturing **9452**
mint precious metal refiner – primary metal processing **9411**
mirror and picture frame assembler **9492**
mirror and picture frame maker **9492**
mirror assembler **9498**
mirror framer **9498**
mirror maker **9413**
mirror silverer **9413**
mirror silvering foreman/woman **9227**
mirror wall installer **7292**
mirror-silvering equipment operator **9413**
MIS (management information system) manager **0213**
MIS (management information systems) analyst **2171**
MIS (management information systems) consultant **2171**
missile electronics inspector **2244**
missionary **4217**
missionary doctor **3112**
missionary nurse **3152**
mitre saw tender – woodworking **9513**
mixed farmer **8251**
mixer – chemical processing **9421**
mixer – concrete, clay and stone products **9414**
mixer – tobacco processing **9464**
mixer and extruder, modelling clay **9414**
mixer caster, concrete **9414**
mixer helper – primary metal and mineral products processing **9611**
mixer helper, wallpaper colours **9421**
mixer operator – concrete products **9414**
mixer operator – rubber processing **9423**
mixer operator – rubber products manufacturing **9423**
mixer operator, dry foods **9461**
mixer operator, lime **9414**
mixer operator, molten metal **9411**
mixer operator, solutions – plastic manufacturing **9422**
mixer tender – chemical processing **9421**
mixer tender, brush materials **9619**
mixer tender, lime **9414**
mixer, asphalt roofing materials **9421**
mixer, battery paste **9421**
mixer, chemicals – photographic processing **9474**
mixer, coating compounds – chemical processing **9421**
mixer, coatings – chemical processing **9421**
mixer, dry explosives **9421**
mixer, dry plaster **9414**
mixer, dry products – stone products **9414**
mixer, explosives **9421**
mixer, foam rubber **9423**
mixer, gunite – construction **7611**
mixer, mortar **9414**
mixer, music or sound **5225**

mixer, paints – chemical processing **9421**
mixer, refractory mortar **9414**
mixer, slate **9414**
mixer, soda solutions **9421**
mixer, viscose **9421**
mixer, wet explosives **9232**
mixer-caster, concrete **9414**
mixer-dryer tender, wood particles **9434**
mixing and grinding machine tender – rubber products manufacturing **9423**
mixing and separating operations foreman/woman – primary metal and mineral products processing **9211**
mixing machine tender, plasterboard **9414**
mixing operator – pulp and paper **9233**
mixing plant foreman/woman – primary metal and mineral products processing **9211**
mixing supervisor – rubber and plastic products manufacturing **9214**
MLA (member of the Legislative Assembly) **0011**
MNA (member of the National Assembly) **0011**
MO (medical officer) general practitioner – military **3112**
mobile broadcasting equipment installer **5224**
mobile broadcasting equipment operator **5224**
mobile canteen driver **7414**
mobile canteen service supervisor **7222**
mobile caterer **7414**
mobile cement mixer driver **7411**
mobile chipper operator – logging **8241**
mobile concrete mixer driver **7411**
mobile crane operator **7371**
mobile disc jockey **5231**
mobile display units rental agent **1224**
mobile equipment dispatcher **1475**
mobile equipment repairer helper **7612**
mobile farm equipment mechanic **7312**
mobile farm machinery repairer **7312**
mobile generator operator **7351**
mobile home assembly foreman/woman **9226**
mobile home assembly supervisor **9226**
mobile home equipment servicer **7441**
mobile home maintainer **7441**
mobile home repairer **7441**
mobile home salesperson – retail **6421**
mobile home servicer **7441**
mobile inspector, transit **7222**
mobile mechanic helper **7612**
mobile platform chief engineer – offshore drilling **2274**
mobile radio broadcasting supervisor **5224**
mobile radio installer – telecommunications **7246**
mobile radio technician – telecommunications **7246**
mobile radiotelephone installer **7246**
mobile support equipment operator – military **7413**
mobile support equipment operator (buses) – military **7412**
mobile support equipment operator (heavy equipment) – military **7421**
mobile support equipment operator (trucks) – military **7411**
mobile transceiver inspector – electronic equipment manufacturing **9483**
mobile whole tree chipper – logging **8241**
mobile-support equipment operators dispatcher – military **1475**
Mobilift operator **7452**
moccasin sewer **9451**
model **5232**
model and mock-up maker **7383**
model and mock-up maker – aeronautics **7383**
model and mould maker – concrete products **7383**
model maker **7383**
model maker – tool and die **7232**
model maker, aircraft **7383**
model maker, jewellery **7344**
model maker, pottery **9414**
model maker, sheet metal **7261**
model maker, ships **7383**
model maker, wood **7272**
model maker-preparator **5212**
modelling and finishing school instructor **4216**
modelling clay mixer and extruder **9414**
modelling school manager **0651**
moderator – broadcasting **5231**
moderator – religion **4154**
modern languages teacher **4131**
modern languages teacher – college **4131**
modern languages teacher – secondary school **4141**
modern languages tutor – language school **4131**
modification mechanic, aircraft mechanical systems **7315**
modifier and lay-out marker **5245**
modifier and marker **5245**
modular housing fabricator, wood **9493**
module tender – tobacco processing **9464**
MOH (medical officer of health) **3112**
mohel **4217**
moisture content tester – dairy products **9465**
moisture content tester – tobacco processing **9465**

molasses mixer – food and beverage processing **9461**
molasses wort processor **9461**
mole operator **7421**
mole operator helper – construction **7611**
molecular biologist **2121**
molecular biophysicist **2111**
molecular geneticist **2121**
molecular physiologist **2121**
molten metal mixer helper – primary metal processing **9611**
molten metal mixer operator **9411**
molten metal sampler – primary metal processing **9415**
molybdenum flotation operator **9411**
molybdenum leaching plant operator **9411**
molybdenum roaster operator **9231**
money counter **6611**
money market analyst **1112**
money market trader **1113**
money-sorting machine operator **1431**
monitoring station operator **1475**
monk **4217**
monochrome plate film stripper **9472**
monorail crane operator **7371**
Monotype casting machine operator **1423**
Monotype hot metal typesetter keyboard operator **1423**
Monotype keyboard operator **1423**
monument carver – stone products **9414**
monument engraver – stone products **9414**
monument erector **7611**
monument inspector – mineral products processing **9415**
monument letterer – stone products **9414**
monument setter **7611**
monument stonecutter – stone products **9414**
mop assembler **9498**
mop maker **9498**
morality officer – police **6261**
morgue attendant **3414**
morgue attendant supervisor **3211**
morgue technician **3414**
mortar mixer **9414**
mortarman/woman – military **6464**
mortgage and consumer credit manager **0122**
mortgage and real estate legal assistant **4211**
mortgage and real estate paralegal **4211**
mortgage broker **1114**
mortgage brokers manager **0121**
mortgage clerk **1434**
mortgage consultant **1232**
mortgage loans consultant **1232**
mortgage loans officer **1232**
mortgage manager **0122**
mortgage officer **1232**
mortician **6272**
mortiser operator – woodworking **9513**
mortising machine operator – woodworking **9513**
mosaic tilesetter **7283**
motel cleaner **6661**
motel manager **0632**
motel managing supervisor **6216**
mother superior/religious superior **4217**
mother's helper **6474**
motion picture camera operator **5222**
motion picture director **5131**
motion picture examiner **5227**
motion picture facilities supervisor **5226**
motion picture film developer **9474**
motion picture film examiner – photographic processing **9474**
motion picture film printer **9474**
motion picture musical director **5132**
motion picture producer **5131**
motion picture production director **5131**
motion picture projectionist **5227**
motor and chassis inspector – motor vehicle manufacturing **9482**
motor and control tester **9485**
motor and generator assembler – electrical equipment manufacturing **9484**
motor and generator assembler – industrial electrical equipment **9485**
motor and generator assembler and wirer **9485**
motor and generator inspector **9485**
motor and generator subassemblies painter **9496**
motor and transformer tester **9485**
motor boat mechanic **7335**
motor boat operator **7436**
motor coach driver **7412**
motor coil winder-repairer **7333**
motor control assembler – industrial electrical equipment **9485**
motor home assembly foreman/woman **9226**
motor installer – motor vehicle manufacturing **9482**
motor installer, boats **9491**
motor launch operator **7436**
motor mechanic – motor vehicle manufacturing **7321**
motor repair vehicle painter apprentice **7322**
motor repairer – motor vehicle manufacturing **7321**

motor scooter repairer **7334**
motor transport labourer **7622**
motor transport manager **0713**
motor transportation inspector **2262**
motor transportation regulations officer **2262**
motor vehicle and equipment sales representative – wholesale (non-technical) **6411**
motor vehicle assembler – motor vehicle manufacturing **9482**
motor vehicle assembly co-ordinator **9221**
motor vehicle assembly foreman/woman **9221**
motor vehicle assembly general supervisor **9221**
motor vehicle assembly plant manager **0911**
motor vehicle assembly supervisor **9221**
motor vehicle assembly zone supervisor **9221**
motor vehicle attendant **6683**
motor vehicle body finisher **7322**
motor vehicle body repairer **7322**
motor vehicle body repairer – collision **7322**
motor vehicle body repairer – metal and paint **7322**
motor vehicle body repairer – refinishing **7322**
motor vehicle body repairer apprentice **7322**
motor vehicle body repairer helper **7612**
motor vehicle body repairers foreman/woman **7216**
motor vehicle body repair-painter **7322**
motor vehicle body technician **7322**
motor vehicle bureau clerk **1441**
motor vehicle claims adjuster – insurance **1233**
motor vehicle cylinder grinder **9511**
motor vehicle diesel engine mechanic **7321**
motor vehicle dispatcher **1475**
motor vehicle engine repair foreman/woman **7216**
motor vehicle fuel conversion technician **7321**
motor vehicle fuel-systems and electric-systems mechanic **7321**
motor vehicle inspection and testing foreman/woman – motor vehicle manufacturing **9221**
motor vehicle inspector **2262**
motor vehicle jig builder **7232**
motor vehicle jockey **6683**
motor vehicle leasing representative – retail **6421**
motor vehicle lighting fixture assembler **9484**
motor vehicle manufacturing foreman/woman **9221**
motor vehicle mechanic **7321**
motor vehicle mechanic helper **7612**
motor vehicle mechanical equipment inspector – motor vehicle manufacturing **9482**
motor vehicle mechanical repairer **7321**
motor vehicle mechanics and repairers foreman/woman **7216**
motor vehicle mechanics foreman/woman **7216**
motor vehicle mechanics supervisor **7216**
motor vehicle model maker **7383**
motor vehicle operator – pole yard **7431**
motor vehicle painter – motor vehicle manufacturing **9496**
motor vehicle painter – motor vehicles repair **7322**
motor vehicle parts clerk **1472**
motor vehicle parts clerk apprentice **1472**
motor vehicle partsperson **1472**
motor vehicle repair shop co-ordinator **1473**
motor vehicle repair shop manager **0621**
motor vehicle repair shop supervisor **7216**
motor vehicle salesperson – retail **6421**
motor vehicle technician **7321**
motor vehicle technician – military **7321**
motor vehicle transmission mechanic **7321**
motor vehicles defects investigator **2262**
motor winder – industrial electrical equipment **9485**
motorboat assembler **9491**
motorboat assembly inspector **9491**
motorboat captain **7436**
motorboat operator **7436**
motor-coil and generator-coil builder **9485**
motor-coil and generator-coil installer – industrial electrical equipment **9485**
motorcycle driving instructor **4216**
motorcycle mechanic **7334**
motorcycle mechanic apprentice **7334**
motorcycle mechanics foreman/woman **7216**
motorcycle patrolman/woman – police **6261**
motorcycle repairer **7334**
motorcycle repairman/woman **7334**
motorcycle salesperson – retail **6421**
motorman/woman – mines **8411**
motorman/woman – offshore drilling rig **7612**
motorman/woman – oil and gas drilling **8412**
motorman/woman – underground mining **8411**
motormen/women and dinkeymen/women foreman/woman (except rail transport) **8221**
mould and core machinist **7231**
mould caster – foundry **9412**
mould cleaner – foundry **9612**
mould cleaner – rubber and plastic products manufacturing **9615**
mould cleaner – rubber products manufacturing **9615**
mould closer – foundry **9612**

mould design engineer **2132**
mould designer **2232**
mould dresser – foundry **9612**
mould filler – clay products **9414**
mould filler – rubber and plastic products manufacturing **9615**
mould filler-stripper – plastic manufacturing **9495**
mould finisher, foundry **9612**
mould laminator – plastic manufacturing **9495**
mould machine operator – rubber products manufacturing **9423**
mould maker, metal **7232**
mould preparer – rubber and plastic products manufacturing **9615**
mould setter – foundry **9412**
mould setter – rubber and plastic products manufacturing **9615**
mould setter, plastic **9422**
mould shop foreman/woman – machining **7211**
mould stripper – concrete products manufacturing **9611**
mould stripper – plastic manufacturing **9495**
mould stripper, asbestos **9611**
mould waxer – plastic manufacturing **9495**
mould waxer – rubber and plastic products manufacturing **9615**
moulded footwear inspection supervisor – rubber and plastic products manufacturing **9214**
moulded plastic finisher **9495**
moulded plastic inspector **9495**
moulded plastic inspector-tester **9495**
moulded plastic products trimmer **9495**
moulded products finisher – plastic products manufacturing **9495**
moulded products stripper – plastic products manufacturing **9495**
moulded products stripper – rubber and plastic products manufacturing **9615**
moulded pulp products foreman/woman **9215**
moulded rubber footwear foreman/woman **9214**
moulded rubber products trimmer **9615**
moulder – chemical processing **9421**
moulder – rubber products manufacturing **9423**
moulder – wood products manufacturing **9513**
moulder – woodworking **9513**
moulder and compressor, toiletries – chemical processing **9421**
moulder and finisher, diamond wheels **9414**
moulder and installer, clay structures **9414**
moulder helper – primary metal processing **9611**
moulder operator – plastic manufacturing **9422**
moulder operator – woodworking **9513**
moulder, asbestos **9611**
moulder, bench – foundry **9412**
moulder, bricks – clay products **9414**
moulder, cement blocks – concrete products **9414**
moulder, clay products **9414**
moulder, claywork **9414**
moulder, compression – plastic manufacturing **9422**
moulder, concrete **9414**
moulder, concrete poles – concrete products manufacturing **9414**
moulder, concrete products **9414**
moulder, fibreglass **9422**
moulder, floor – foundry **9412**
moulder, hand – clay products **9414**
moulder, inflatable balls **9517**
moulder, papier-mâché **9435**
moulder, pipe fittings – concrete products **9414**
moulder, plastic ankle pieces **9495**
moulder, plastic mannequins – plastic manufacturing **9422**
moulder, precast concrete **9414**
moulder, printing rollers – plastic manufacturing **9422**
moulder, refractory tamp – clay products **9414**
moulder, saggars – clay products **9414**
moulder, seamless balls **9517**
moulder, sports balls **9517**
moulder, squeezer – foundry **9412**
moulder, stone products **9414**
moulder, stonework **9414**
moulder, upholstery – plastic manufacturing **9495**
moulding and coremaking machine setter – foundry **9412**
moulding and coremaking machine set-up man/woman – foundry **9412**
moulding cutter – wood products manufacturing **9513**
moulding foreman/woman – foundry **9211**
moulding foreman/woman – rubber and plastic manufacturing **9214**
moulding machine off-bearer – rubber products manufacturing **9615**
moulding machine operator – food and beverage processing **9461**
moulding machine operator – woodworking **9513**
moulding machine operator, injection – plastic manufacturing **9422**
moulding machine tender, soles – footwear manufacturing **9517**
moulding operator, injection – plastic manufacturing **9422**

moulding plasterer **7284**
moulding press feeder, footwear – rubber products manufacturing **9615**
moulding press operator, sports balls **9517**
moulding press tender – rubber products manufacturing **9423**
moulding sand mixer – foundry **9412**
moulding supervisor – rubber and plastic products manufacturing **9214**
mouldmaker – aircraft **7232**
mouldmaker – clay products **9414**
mouldmaker – plastics processing **7232**
mouldmaker apprentice **7232**
mouldmaker, hand – foundry **9412**
mouldmaker, metal **7232**
mouldmaker, pottery **9414**
mouldmaker, wood **7272**
mouldmaking machinist **7231**
mouldman/woman – rubber products manufacturing **9423**
mount operator – electronic equipment manufacturing **9483**
mountain climbing guide **6442**
mountain guide **6442**
mountaineering guide **6442**
mounted police constable **6261**
mounted policeman/woman **6261**
mounter – electronic equipment manufacturing **9483**
mounter, hollowware **9517**
mounter, photographs **9474**
mounter, solid tires – toy manufacturing **9619**
movement analyst – medical **3144**
movement tester, clocks and watches **9498**
movement tester, watches **9498**
movement therapist **3144**
mover helper **7622**
movie actor **5135**
movie critic **5123**
movie director **5131**
movie producer **5131**
movie theatre attendants supervisor **6216**
movie theatre cashier **6611**
movie theatre manager **0651**
movie theatre projectionist **5227**
movie usher **6683**
moving company manager **0713**
moving van driver **7411**
moving van drivers supervisor **7222**
moving van helper **7622**
moving walkway installer-repairer **7318**
mower, lawns **8612**
MP (member of Parliament) **0011**
MPP (member of the Provincial Parliament) **0011**
MRI (magnetic resonance imaging) technologist **3215**
MT (massage therapist) **3235**
mucker – underground mining **8231**
mucker operator – construction **7421**
mucking machine operator **8231**
mucking machine operator – construction **7421**
mucking machine operator – underground mining **8231**
mud engineer **2145**
mud engineer – petroleum drilling **2145**
mud jack operator **7611**
mud man/woman – petroleum drilling **2212**
muffin baker **6252**
muffin maker **6252**
muffler installer **7443**
muffler shop manager **0621**
mule fixer – textile manufacturing **7317**
mule setter – textile manufacturing **7317**
multiculturalism project officer **4164**
multidrum sander operator **9434**
multifocal lens assembler **9498**
multi-function metal-cutting tool operator **9511**
multi-function metal-cutting tool operator trainee **9511**
multimedia archivist **5113**
multimedia audio producer **5131**
multimedia author **5121**
multimedia consultant **2171**
multi-media department manager **0512**
multimedia design specialist **5241**
multimedia designer **5241**
multimedia developer **2174**
multimedia ergonomist **4161**
multimedia graphic design technician **5223**
multimedia graphics technician **5223**
multimedia illustrator **5241**
multimedia information trader **5123**
multimedia instructional designer and scriptor **5241**
multimedia librarian **5111**
multimedia photographer **5221**
multimedia picture illustrator **5221**
multimedia products designer **5241**
multimedia products designer-ideaman/woman **5241**
multimedia programmer **2174**
multimedia script writer **5121**
multimedia sound technician **5225**
multimedia sound-effects supervisor **5225**

multimedia writer **5121**
multineedle sewing machine operator **9451**
multi-operation forming machine tender **9514**
multiple extruder operator – plastic manufacturing **9422**
multiple punch press operator – metal fabrication **9514**
multiple-spindle drill press operator – metal machining **9511**
multiple-spindle drill press set-up operator – metal machining **9511**
multiple-spindle screw machine operator **9511**
multiple-spindle vertical boring mill set-up operator **9511**
multiple-spindle vertical turret lathe set-up operator **9511**
multiroll calender operator – rubber products manufacturing **9423**
multiservice operator **8222**
multiservice operator – oil field services **8222**
municipal administrator **0012**
municipal assessor **1235**
municipal council chairman/woman **0011**
municipal director of leisure **0513**
municipal director of recreation **0513**
municipal director, leisure **0513**
municipal director, recreation **0513**
municipal draftsperson **2253**
municipal elemental worker **7621**
municipal engineer **2131**
municipal engineering assistant **2231**
municipal general labourer **7621**
municipal labourer **7621**
municipal law enforcement officer **6463**
municipal law enforcement officers supervisor **6463**
municipal leisure director **0513**
municipal leisure manager **0513**
municipal maintenance equipment operator **7422**
municipal manager of leisure **0513**
municipal manager of recreation **0513**
municipal manager, leisure **0513**
municipal manager, recreation **0513**
municipal office clerk **1441**
municipal officer, public health – government services **0411**
municipal park planner **2153**
municipal planner **2153**
municipal recreation director **0513**
municipal recreation manager **0513**
municipal recycling program co-ordinator **4161**
municipal servicer drain roto **7422**
municipal solicitor **4112**
municipal tax collector **1228**
municipal taxation manager **0412**
munitions assembler **9498**
munitions handler **7452**
munitions inspector **9498**
munitions loading inspector **9498**
munitions manufacturing inspector **9498**
munitions salvage inspector **9498**
munitions worker **9498**
mural landscape artist **5136**
mural painter **5136**
museology technician **5212**
museum administrator **0511**
museum assistant administrator **0511**
museum assistant director **0511**
museum cataloguer **5212**
museum co-ordinator **0511**
museum curator **5112**
museum designer **5243**
museum director **0511**
museum director of conservation **0511**
museum education officer **5124**
museum educator **5124**
museum executive director **0511**
museum exhibit designer **5243**
museum exhibit officer **5212**
museum extension officer **5212**
museum general director **0511**
museum interpreter **5212**
museum manager **0511**
museum objects cataloguer **5212**
museum objects conservator **5112**
museum objects preparator **5212**
museum preparator **5212**
museum registrar **5212**
museum technician **5212**
museum technician – earth's history and paleontology **5212**
mushroom farm worker **8431**
mushroom grower **8251**
mushroom picker **8611**
mushroom producer **8251**
music academy manager **0651**
music adapter **5132**
music arranger **5132**
music CDs and tapes sales clerk **6421**
music compact discs and tapes sales clerk **6421**
music co-ordinator – education **4166**
music copyist **5132**
music critic **5123**
music director **5132**

music editor – recording studio **5225**
music librarian **5111**
music librarian – broadcasting **5111**
music library assistant **5211**
music mixer **5225**
music officer – military **5133**
music or sound mixer **5225**
music professor – university **4121**
music program planner **5226**
music program planner, radio **5226**
music reviewer **5123**
music school manager **0651**
music teacher – conservatory of music **4131**
music teacher – elementary school **4142**
music teacher – private, conservatory or studio lessons **5133**
music teacher – secondary school **4141**
music therapist **3144**
music therapists' supervisor **3144**
music therapy researcher **3144**
music writer **5132**
musical director **5132**
musical director, motion picture **5132**
musical director, stage **5132**
musical director, television **5132**
musical instrument assembler **9498**
musical instrument repairer **7445**
musical instrument tester **7445**
musical instrument tube bender **9514**
musical instrument tuner **7445**
musical instruments and supplies salesperson – retail **6421**
musical interpreter **5133**
musician **5133**
musician – military **5133**
musicians agent **5124**
muskeg tractor operator **7411**
muskrat trapper **8442**
mussel farm labourer **8613**
mussel farmer **8257**
mussel grower **8257**
mussel harvester **8613**
mutual fund broker **1113**
mutual fund sales agent **1113**
mutual fund sales representative **1113**
mutual funds manager – financial brokerage **0121**
mycological technician **2221**
mycological technologist **2221**
mycologist **2121**

N

nail cutter – shoe manufacturing **9619**
nail maker **9516**
nail making machine set-up operator **9516**
nail making machine tender **9516**
nailer – footwear manufacturing **9517**
nailing machine operator – woodworking **9513**
nails and lashes applicator **6482**
name plate stamper **9511**
nameplate engraver **5244**
nanny **6474**
naphthalene clarifier **9232**
napper – textile manufacturing **9443**
napper adjuster – textile manufacturing **7317**
napper grinder – textile manufacturing **7317**
napper operator – textile manufacturing **9443**
napper tender – textile manufacturing **9443**
naps teaseller – textile manufacturing **9443**
narcotic drugs clerk **1472**
narcotics squad detective **6261**
narrator **5135**
narrow fabric examiner **9444**
national accounts manager – sales **0611**
national sales manager **0611**
national sales manager, real estate **0121**
national team coach **5252**
Native affairs officer **4164**
Native art carver **5244**
Native band administrator **1221**
Native centre co-ordinator **4212**
Native centre manager **0314**
Native craftwork instructor **5244**
Native employment program officer **4164**
Native issues lobbyist **4164**
Native land claims liaison officer **4168**
Native outreach officer – social services **4212**
Native outreach worker **4212**
Native reserve administrator **1221**
Native school community teacher – secondary school **4141**
Native school principal **0313**
natural and applied sciences consultant **4161**
natural and applied sciences policy analyst **4161**
natural and applied sciences program officer **4161**
natural and applied sciences researcher **4161**
natural gas engineer **2145**
natural gas sales representative **6221**
natural history museum curator **5112**
natural history specimen conservator **5112**
natural resources economist **4162**
natural resources officer **2224**

natural resources planner **4161**
natural resources policy analyst **4161**
natural resources policy director – government services **0412**
natural resources technician – biology **2221**
natural resources technician – forestry **2223**
natural sciences curator **5112**
natural sciences museum curator **5112**
natural sciences professor – university **4121**
natural sciences program manager **0212**
naturalist **2121**
nature site interpreter **5212**
nature study teacher – elementary school **4142**
naturopath **3123**
naturopathic doctor (ND) **3123**
naturopathic physician **3123**
nautical activities co-ordinator **4167**
nautical instrument maker – electronic equipment manufacturing **9483**
nautical programs co-ordinator **4167**
naval acoustic sensor operator – military **6464**
naval acoustics equipment operator – military **6464**
naval acoustics technician – military **6464**
naval architect **2148**
naval combat information equipment operator – military **6464**
naval electronic sensor operator – military **6464**
naval electronics technician – military **6464**
naval electronics technician (acoustics) – military **6464**
naval electronics technician (communications) – military **6464**
naval electronics technician (tactical) – military **6464**
naval electronics technician, acoustics – military **2241**
naval electronics technician, communications – military **2241**
naval electronics technician, systems – military **2241**
naval electronics technician, tactical – military **2241**
naval engineer **2148**
naval radio operator – military **6464**
naval signalman/woman – military **6464**
naval weapons technician – military **6464**
navigation aid inspector – electronic equipment manufacturing **9483**
navigation and positioning engineer **2131**
navigation officer – water transport **2273**
navigation officer, Coast Guard vessel **2273**
navigation officer, fishing vessel **8261**
navigator – air transport **2271**
navy chaplain – military **4154**
NC (numerical control) drilling machine operator – metal machining **9511**
NC (numerical control) programmer **2233**
NC (numerical control) riveting machine operator – metal products manufacturing **9516**
NC (numerically controlled) machine operator – metal machining **9511**
NC (numerically controlled) machine tool operator **9511**
NC (numerically controlled) machine tool set-up operator **9511**
NC (numerically controlled) machining tool operator **9511**
NC (numerically controlled) machinist **7231**
NC (numerically controlled) riveting machine operator – metal products manufacturing **9516**
NC (numerically controlled) tracer operator – metal machining **9511**
NC/CNC (numerical control/computer numerical control) machining tool operator **9511**
ND (naturopathic doctor) **3123**
NDT (nondestructive testing) maintenance technician **2261**
NDT (non-destructive testing) maintenance technician **2261**
neck skewerer – food and beverage processing **9617**
necklace assembler **9498**
needle bed repairer – textile manufacturing **7317**
needle board repairer – textile manufacturing **7317**
needle loom operator **9442**
needle loom weaver **9442**
needleworker, hand **5244**
negative cutter – film processing **9474**
negative merger **9472**
negative restorer – photographic processing **9474**
negative retoucher **9474**
negative spotter – film processing **9474**
negative spotter – printing **9472**
negative-contact-frame operator **9474**
negotiator, collective agreements **1121**
negotiator, labour organization **1121**
negotiator, purchasing contracts **1225**
neighbourhood planner **2153**
neighbourhood worker – social services **4212**
nematologist **2121**
neon sign builder – electrical equipment manufacturing **9484**

neon sign erector **7441**
neon sign installer **7441**
neon sign maker **9484**
neon sign pumper **9413**
neon sign repairer **7445**
neon sign tube bender **9413**
neon tube bender **9413**
neon tube pumper **9413**
neonatologist **3111**
neoprene sprayer operator – plastic manufacturing **9422**
nephrologist **3111**
nephrology and kidney transplantation nurse **3152**
nephrology and renal transplantation nurse **3152**
nephrology nurse **3152**
nephrology, chief of **0311**
nerve specialist **3111**
net applicator – plastic products manufacturing **9495**
net maker, hand **9498**
net maker, machine – textiles **9442**
net mender **7445**
net repairer **7445**
net weaver – textiles **9442**
net-knitting machine operator – textiles **9442**
netmender, fishing vessel **8441**
netsurfer **5123**
netting-making machine operator – textiles **9442**
network administrator **2281**
network architect – computer systems **2147**
network conduct centre assistant manager **0131**
network controller **2281**
network designer – computer systems **2147**
network engineer, communication hardware **2147**
network installation manager – telecommunications **0131**
network operations manager – telecommunications **0131**
network operator **2281**
network reporter **5123**
network services manager – telecommunications **0131**
network specialist – computer systems **2147**
network support analyst **2281**
network support technician **2281**
network systems engineer **2147**
network test engineer **2147**
network traffic manager – telecommunications **0131**
networks manager – telecommunications **0131**
neuroelectrophysiology technologist **3218**
neurological surgeon **3111**
neurologist **3111**
neurology, chief of **0311**
neuropathologist **3111**
neuropsychiatric aide **3413**
neuropsychiatrist **3111**
neuropsychologist **4151**
neuroscience nurse **3152**
neurosurgeon **3111**
neutralizer **9421**
neutralizer – textile manufacturing **9443**
neutralizer, corn starch **9617**
neutralizer, nitroglycerine **9421**
new car mechanic **7321**
new home salesperson **6232**
new media graphics designer **5241**
new media writer **5121**
new passenger car inspector **9482**
new passenger car preparer – motor vehicle manufacturing **9482**
newborn emergency medical care technician **3234**
newborn medical care technician **3234**
news analyst **5123**
news analyst – broadcasting **5123**
news camera operator **5222**
news commentator **5123**
news commentator – broadcasting **5123**
news correspondent **5123**
news department manager **0512**
news desk editor **5122**
news editor **5122**
news editor – broadcasting **5122**
news item delivery person – courier service **1463**
news photographer **5221**
news reader **5231**
news reporter **5123**
news service editor **5122**
news writer – international broadcasting **5123**
newscast correspondent **5123**
newscaster **5231**
newspaper carrier **1463**
newspaper carrier – courier service **1463**
newspaper carrier and vendor **1463**
newspaper circulation clerk **1452**
newspaper correspondent **5123**
newspaper critic **5123**
newspaper deliverer **1463**
newspaper delivery driver **7414**
newspaper delivery persons supervisor **6211**
newspaper dispatcher **1475**
newspaper distributor – courier service **1463**
newspaper editor **5122**
newspaper editorial writer **5123**

newspaper illustrator **5241**
newspaper manager **0512**
newspaper managing editor **0512**
newspaper page assembler **1423**
newspaper press operator **7381**
newspaper pressman/woman **7381**
newspaper reporter **5123**
newspaper sales supervisor **6211**
newspaper salesperson supervisor **6211**
newspaper vendor **6623**
newspaper vendor – street sales **6623**
newspaper writer **5123**
newsstand clerk **6421**
NGO (non-governmental organization) manager **0314**
nib finisher – metal products manufacturing **9612**
nibbling machine operator – jewellery manufacturing **9517**
nibbling machine operator – metal fabrication **9514**
nickel plater **9497**
night auditor **1431**
night auditor – hotel **6435**
night clerk – hotel **6435**
night clerk supervisor – hotel **6216**
night guard **6651**
night supervisor – hotel **6216**
night supervisor, telephone system **1211**
night watchman/woman **6651**
nipper – underground mining **8411**
nitric acid oxidation plant operator **9232**
nitrocellulose dryer tender **9421**
nitrocellulose finisher **9421**
nitrocellulose maker **9232**
nitrocellulose screener and weigher **9421**
nitrogen operator – oil field services **8412**
nitrogen truck operator – oil field services **8412**
nitroglycerine maker **9232**
nitroglycerine neutralizer **9421**
nitroglycerine nitrator operator **9232**
nitroglycerine separator **9232**
nitroglycerine separator operator **9232**
NMR (nuclear magnetic resonance) chemical technician **2211**
NMR (nuclear magnetic resonance) spectroscopist **2112**
NMRI (nuclear magnetic resonance imaging) technologist **3215**
noise abatement engineer **2131**
noise abatement technician **2231**
noise reduction technician **2231**
nondestructive examination inspector **2261**
non-destructive examination inspector **2261**
nondestructive examination technician **2261**
non-destructive examination technician **2261**
non-destructive examiner **2261**
nondestructive inspection technician **2261**
non-destructive inspection technician **2261**
nondestructive inspector **2261**
non-destructive inspector **2261**
nondestructive test technician **2261**
non-destructive test technician **2261**
nondestructive tester **2261**
non-destructive tester **2261**
nondestructive testing inspector **2261**
non-destructive testing inspector **2261**
nondestructive testing maintenance (NDT) technician **2261**
non-destructive testing maintenance (NDT) technician **2261**
non-destructive testing trainee **2261**
non-governmental organization (NGO) manager **0314**
non-registered electrocardiography technician **3217**
non-technical sales specialist – wholesale **6411**
noodle paste mixer tender **9617**
nose specialist **3111**
notary (Quebec) **4112**
notary public (British Columbia) **4211**
notary public (outside Quebec) **4211**
notary public clerk **4211**
notary public, lay **4211**
notary, Quebec **4112**
notcher operator – woodworking **9513**
notching saw operator – woodworking **9513**
novelist **5121**
novelties stylist **5243**
novelty products salesperson – wholesale **6411**
novelty sales representative – wholesale **6411**
novice – religion **4217**
nozzle worker – pile driving **7611**
nuclear chemist **2112**
nuclear design engineer **2132**
nuclear engineer **2132**
nuclear engineering technician **2232**
nuclear engineering technologist **2232**
nuclear fuel processor **9231**
nuclear generating station and heavy water plant control technician **2243**
nuclear generating station field operator **7352**
nuclear generating station mechanical maintainer **7311**
nuclear generating station operator **7352**

nuclear generating station operator – electrical power system 7352
nuclear magnetic resonance (NMR) chemical technician 2211
nuclear magnetic resonance (NMR) spectroscopist 2112
nuclear magnetic resonance imaging (NMRI) technologist 3215
nuclear medicine chief technologist 3215
nuclear medicine clinical instructor 3215
nuclear medicine physician 3111
nuclear medicine specialist 3111
nuclear medicine supervisor 3215
nuclear medicine technical co-ordinator 3215
nuclear medicine technical director 3215
nuclear medicine technician 3215
nuclear medicine technologist 3215
nuclear medicine technologists supervisor 3215
nuclear operations engineer 2132
nuclear physician 3111
nuclear physicist 2111
nuclear power station equipment mechanic 7311
nuclear power station machinery mechanic 7311
nuclear reactor control room operator – electrical power system 7352
nuclear reactor operator 7352
nuclear reactor operator – electrical power system 7352
nuclear reactor physicist 2111
nuclear station control room operator 7352
nuclear technologist 2232
nucleonic controller repairer 2243
nucleonics instrument assembler 9483
nude dancer 5232
nuisance control trapper 7444
numbering machine operator – printing 9473
numerical control (NC) machining tool operator 9511
numerically controlled (NC) machine operator – metal machining 9511
numerically controlled (NC) machine tool set-up operator 9511
numerically controlled machine tool programmer (except operators) 2233
numerically controlled tool programmer 2233
numerologist 6484
numismatist 0621
nun 4217
nurse 3152
nurse – birthing room 3152
nurse – military 3152
nurse aide 3413
nurse consultant 3152
nurse counsellor 3152
nurse educator 3152
nurse employed at national level 3152
nurse in independent practice 3152
nurse instructor 3152
nurse of native ancestry 3152
nurse practitioner 3152
nurse researcher 3152
nurse supervisor – military 3151
nurse technician 3152
nurse, contagious disease transmission prevention 3152
nurse, geriatric 3152
nurse, hospital hygiene 3152
nursemaid – private households 6474
nurse-midwife 3232
nursery aide – hospital 3413
nursery farmer 8254
nursery foreman/woman 8256
nursery manager 8254
nursery operator 8254
nursery school aide 4214
nursery school helper 4214
nursery school teacher 4214
nursery supervisor 8256
nursery technician – forestry 2223
nursery worker 8432
nursery worker crew chief 8256
nursery worker foreman/woman 8256
nursery workers supervisor 8256
nurseryman/woman 8254
nursing adviser 3152
nursing assistant (non-registered) 3413
nursing assistant (registered – Québec) 3233
nursing attendant 3413
nursing care co-ordinator 3151
nursing care manager – medical services 0311
nursing consultant 3152
nursing co-ordinator 3151
nursing counsellor 3152
nursing evaluator 3152
nursing home attendant 3413
nursing home cleaner 6661
nursing home guidelines development officer 4165
nursing home inspector 2263
nursing home policy development officer 4165
nursing instructor – college 4131
nursing orderly 3413
nursing professor – university 4121
nursing registry manager 0123

nursing registry supervisor **1211**
nursing researcher – nurse **3152**
nursing services administrator **0311**
nursing services aide **3413**
nursing services assistant administrator **0311**
nursing services co-ordinator **3151**
nursing services co-ordinator – management **0311**
nursing services director – medical services **0311**
nursing services manager – medical services **0311**
nursing sister **3152**
nursing supervisor **3151**
nursing supervisor, operating room **3151**
nursing technician **3152**
nursing unit administrator **0311**
nursing unit co-ordinator **3151**
nursing unit supervisor **3151**
nursing vice-president – health, education, social and community services and membership organizations **0014**
nursing ward supervisor **3151**
nut and bolt assembler – metal products manufacturing **9612**
nut and bolt machine tender **9516**
nut and bolt packer – metal products manufacturing **9612**
nut disk cutter **9516**
nut former, metal **9516**
nut maker, metal **9516**
nut mixer operator **9461**
nut sorter – food and beverage processing **9617**
nut-chopping machine feeder **9617**
nutrition and dietetics researcher **3132**
nutrition consultant **3132**
nutrition researcher **3132**
nutritional chemist **2112**
nutritionist **3132**
nutritionist, administrative **3132**
nutritionist, community **3132**
nutritionist, consultant **3132**
nutritionist, public health **3132**
nutritionist, registered **3132**
nutritionist, therapeutic **3132**
nut-roasting equipment operator **9461**

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oar maker – woodworking **9513**
oar shaper – woodworking **9513**
oats miller **9461**
observer helper – gravity prospecting **8615**
observer helper – seismic prospecting **8615**
observer, fisheries **2224**
observer, surface weather **2213**
obstetrical nursing supervisor **3151**
obstetrician **3111**
obstetrician-gynaecologist **3111**
obstetrics and gynecology, chief of **0311**
obstetrics nurse **3152**
occlusion rim former – dentures **3223**
occupational analyst – human resources **1121**
occupational analyst – services to management firms **1122**
occupational counsellor **4213**
occupational health and safety manager **0112**
occupational health and safety officer **2263**
occupational health inspector **2263**
occupational health nurse **3152**
occupational health nurse consultant **3152**
occupational health officer **2263**
occupational health physician (OHP) **3111**
occupational health services director **0311**
occupational health supervisor **2263**
occupational hygiene inspector **2263**
occupational hygiene officer **4161**
occupational hygiene technician **2263**
occupational hygienist **4161**
occupational hygienist technologist **2263**
occupational medicine nurse **3152**
occupational medicine specialist **3111**
occupational physician **3111**
occupational safety inspector **2263**
occupational safety officer **2263**
occupational supply analyst **4164**
occupational therapist (OT) **3143**
occupational therapist assistant **3414**
occupational therapist rehabilitation consultant **3143**
occupational therapist vocational evaluator **3143**
occupational therapist, case manager **3143**
occupational therapist, community **3143**
occupational therapist, community practice **3143**
occupational therapist, home care **3143**
occupational therapist, research **3143**
occupational therapist, research and development **3143**
occupational therapy aide **3414**
occupational therapy assistant **3414**
occupational therapy helper **3414**
occupational therapy technician **3414**
occupational therapy, chief of **0311**
occupational therapy, director of **0311**
occupational training director – government services **0411**

occupational training director – human resources **0112**
ocean and lake container transportation sales representative **6411**
ocean engineer **2131**
ocean freight co-ordinator **1215**
ocean freight manager **0713**
ocean freight technician **1215**
oceanographer **2113**
oceanographic chemist **2112**
oceanographic equipment operator – military **6464**
oceanographic research director **0212**
oceanography professor – university **4121**
ocular prosthetist **3219**
ocularist **3219**
ocularist apprentice **3219**
ocularist technician **3219**
oculist **3111**
OD (doctor of optometry) **3121**
odorization technician – chemical processing **9421**
oenologist **0911**
offbearer – printing **9619**
off-bearer, machine – rubber products manufacturing **9615**
off-bearer, moulding machine – rubber products manufacturing **9615**
offbearer, textile machines **9616**
office administration clerk **1441**
office administrator **1221**
office assistant **1411**
office auditor – taxation **1228**
office automation administrator **1211**
office automation co-ordinator **1221**
office automation technician **1241**
office building cleaner **6661**
office building concierge **6663**
office cashier **6611**
office chair assembler **9492**
office cleaner **6661**
office clerk **1411**
office clerks supervisor **1211**
office co-ordinator **1221**
office equipment purchasing manager **0113**
office equipment purchasing officer **1225**
office equipment sales representative – wholesale (non-technical) **6411**
office equipment salesperson – retail **6421**
office equipment salesperson – wholesale **6221**
office equipment service technician **2242**
office furniture installer **7441**
office furniture sales representative – wholesale **6411**
office machine operator **1411**
office machine operators supervisor **1211**
office machine repairer **2242**
office machine repairers foreman/woman **7216**
office manager **1221**
office manager – non-profit organization **0114**
office messenger **1463**
office nurse **3152**
office of health promotion chief – government services **0411**
office reception clerk **1414**
office receptionist **1414**
office services co-ordinator **1221**
office services supervisor **1211**
office space planner **5242**
office supervisor **1211**
office supplies store manager **0621**
officer, Aboriginal employment program **4164**
officer, access to information and privacy **1221**
officer, adjudication – employment insurance **1228**
officer, adjudication – immigration **1228**
officer, adult education program **4166**
officer, advertising space **1224**
officer, air traffic control **2272**
officer, banking accounts **1232**
officer, by-law enforcement **6463**
officer, civil emergency measures **1221**
officer, commercial development – government **4163**
officer, community relations – police **6261**
officer, conservation **2224**
officer, contract management **1225**
officer, corporate security **6465**
officer, court **1227**
officer, credit **1232**
officer, deck **2273**
officer, deck – water transport **2273**
officer, economic development – government **4163**
officer, election commission **4168**
officer, employment insurance **1228**
officer, employment insurance policy analysis **4164**
officer, environmental health **2263**
officer, federal-provincial relations **4168**
officer, financial control **1111**
officer, fisheries **2224**
officer, foreign service **4168**
officer, game **2224**

officer, health and safety **2263**
officer, health care planning **4165**
officer, health policy development **4165**
officer, House of Commons **4168**
officer, House of Commons committee **4168**
officer, human rights **4164**
officer, Human Rights Commission **4164**
officer, immigration – government services **1228**
officer, immigration and demographic analysis **4164**
officer, industrial development – government **4163**
officer, industrial health **2263**
officer, infection control – hospital **3152**
officer, intergovernmental affairs **4168**
officer, investigations – postal service **6465**
officer, labour relations commission **4168**
officer, labour standards **2263**
officer, legislative committee **4168**
officer, legislative council **4168**
officer, loans **1232**
officer, loss prevention – retail **6465**
officer, maritime surface and subsurface – military **2273**
officer, mortgage loans **1232**
officer, municipal law enforcement **6463**
officer, Native outreach – social services **4212**
officer, navigation – water transport **2273**
officer, occupational health **2263**
officer, occupational health and safety **2263**
officer, occupational safety **2263**
officer, Office of the Speaker of the House of Commons **4168**
officer, official languages commission **4168**
officer, official languages education **4166**
officer, organization and methods **1122**
officer, physical education and leisure – military **0513**
officer, physical education and recreation – military **0513**
officer, postal inspection **6465**
officer, Premier's Office (provincial government) **4168**
officer, Prime Minister's Office (federal government) **4168**
officer, Privy Council Office **4168**
officer, protocol – government services **4168**
officer, public inquiries **4168**
officer, public relations **5124**
officer, recruitment and training – police **6261**
officer, regional committee – government services **4168**
officer, regional council **4168**
officer, regional economic development agency **4163**
officer, regional forest inventory **2122**
officer, royal commission **4168**
officer, safety and health **2263**
officer, security analysis – postal service **6465**
officer, Senate committee **4168**
officer, social programs **4164**
officer, sports projects **4167**
officer, standing committee **4168**
officer, standing or select committee **4168**
officer, task force **4168**
officer, taxation **1228**
officer, territorial council **4168**
officer, tourism development – government **4163**
officer, tribunal **4168**
officer-in-charge, weather station **2213**
official languages chief **0112**
official languages co-ordinator **1221**
official languages education officer **4166**
official languages manager **0112**
official languages promotion officer **4168**
officiating clergyman/woman **4154**
offline-printing and offline-finishing machine operator **9471**
offset duplicating machine operator **9471**
offset lithographic proof press operator – printing **7381**
offset lithography foreman/woman – printing **7218**
offset machine operator **7381**
offset Multilith operator – printing **9471**
offset plate preparer **9472**
offset platemaker **9472**
offset press foreman/woman – printing **7218**
offset press operator **7381**
offset press operator – printing **7381**
offset press operators foreman/woman – printing **7218**
offset pressman/woman – printing **7381**
offset printer **7381**
offset printing plate preparer **9472**
offshore diver **7382**
offshore driller – oil and gas **8232**
offshore drilling engineer **2145**
offshore drilling rig first mate **2273**
offshore drilling rig marine engineer officer **2274**
offshore drilling rig subsea equipment engineer **2145**
offshore drilling rig superintendent **8222**
offshore fishing vessel captain **8261**

offshore rig captain **2273**
offshore rig commanding officer **2273**
offshore trawler deckhand **8441**
OHP (occupational health physician) **3111**
oil and gas drilling engineer **2145**
oil and gas drilling foreman/woman **8222**
oil and gas drilling superintendent **0811**
oil and gas fields production manager **0811**
oil and gas production engineer **2145**
oil and gas rights law clerk **4211**
oil and gas rights legal assistant **4211**
oil and gas rights paralegal **4211**
oil and natural gas well servicing foreman/woman **8222**
oil and solid fuel heating mechanic **7331**
oil blender **9232**
oil burner apprentice **7331**
oil burner installation foreman/woman **7216**
oil burner installer **7331**
oil burner installer and repairer **7331**
oil burner maintainer **7331**
oil burner maintainer helper **7612**
oil burner mechanic **7331**
oil burner mechanic apprentice **7331**
oil burner mechanic helper **7612**
oil burner mechanic, residential **7331**
oil burner mechanics foreman/woman **7216**
oil burner repairer **7331**
oil burner servicer **7331**
oil burner technician **7331**
oil burner technician helper **7612**
oil changer – motor vehicle service **7443**
oil clarifier tender – food and beverage processing **9461**
oil controller **9232**
oil dispatcher **9232**
oil distributor **6411**
oil drill rig mechanic **7311**
oil field labourer **8615**
oil field production operator **9232**
oil field pumper **9232**
oil filter assembler **9498**
oil furnace installer **7331**
oil geologist **2113**
oil geology technologist **2212**
oil lease broker **1236**
oil movement controller **9232**
oil painter **5136**
oil pipeline operator **9232**
oil pump station mechanic **7311**
oil reclaimer **9619**
oil refiner **9232**
oil refinery equipment sales representative **6221**
oil refinery process operator **9232**
oil tool maintenance mechanic **7311**
oil tool repairer **7311**
oil transport driver **7411**
oil well acidizer **8412**
oil well cementer helper **8615**
oil well cementer, oil field services **8412**
oil well drilling manager **0811**
oil well equipment design engineer **2132**
oil well logging engineer **2145**
oil well perforator **8232**
oil well service dispatcher **1475**
oil well services field supervisor **8222**
oil well services sales engineer **6221**
oil well servicing manager **0811**
oil-drilling rig maintainer **7311**
oil-drilling rig mechanic **7311**
oiler – automotive service **7443**
oiler and greaser, crane and dragline **7443**
oiler, heavy truck **7443**
oiler, industrial machinery **7612**
oiler, marine **7434**
oiler, railway cars **7431**
oiler, stationary engines **7612**
oilfield construction foreman/woman **7217**
oilfield construction supervisor **7217**
oilseed crop worker **8431**
ombudsman – government services **0012**
ombudsman officer **1221**
on-call library assistant **5211**
on-call nurse **3152**
oncologist **3111**
oncologist, pediatric **3111**
oncologist, radiation **3111**
oncology nurse **3152**
oncology technologist **3215**
oncology technologist, radiation therapy **3215**
on-line chronicler **5123**
on-line columnist **5123**
on-line reference developer **5121**
open pit mine supervisor **8221**
open-end spinner – textile manufacturing **9441**
open-end technician – textile manufacturing **7317**
opener tender – textiles **9441**
open-flame furnace operator – primary metal processing **9231**
opening and blending operator **9441**
opening machine feeder – rubber products manufacturing **9615**
open-pit blaster **7372**
open-pit driller **7372**

opera company director **0512**
opera singer **5133**
operating engineer, heavy equipment **7421**
operating officer – administration **1221**
operating room (OR) nurse **3152**
operating room aide **3413**
operating room assistant – military **3233**
operating room assistant (medical laboratory technician) – military **3212**
operating room head nurse **3151**
operating room nursing supervisor **3151**
operating room technician **3233**
operating room technician – nursing **3233**
operating systems programmer **2174**
operating team supervisor – pulp and paper **9215**
operating technician – chemical processing **9232**
operational meteorologist **2114**
operational officer – administration **1221**
operational planning director **0114**
operations and transmission services manager – telecommunications **0131**
operations chief **0114**
operations co-ordinator, property management **1224**
operations director – administrative services **0114**
operations director, transportation **0713**
operations forester **2122**
operations management senior consultant **1122**
operations manager – administrative services **0114**
operations manager – banking, credit and investment **0122**
operations manager – broadcasting **0512**
operations manager – manufacturing **0911**
operations manager – public utilities **0911**
operations manager – publishing **0512**
operations manager – telecommunications **0131**
operations manager – trade, broadcasting and other services **0015**
operations manager, credit card company **0122**
operations manager, maintenance **0721**
operations manager, manufacturing **0911**
operations manager, marine transportation **0713**
operations manager, pipelines **0912**
operations manager, ship management **0713**
operations officer – administration **1221**
operations research analyst **2161**
operations research technologist **2233**
operations researcher **2161**
operations supervisor **1211**
operations technician – chemical processing **9232**
operations technician, weather station **2213**
operations vice-president – electric power company **0016**
operations vice-president – financial, communications and other business services **0013**
operations vice-president – goods production, utilities, transportation and construction **0016**
operations vice-president – health, education, social and community services and membership organizations **0014**
operations vice-president – radio broadcasting services **0015**
operations vice-president – satellite communication services **0013**
operations vice-president – trade, broadcasting and other services **0015**
operator – electrical equipment manufacturing **9487**
operator – telephone system **1424**
operator helper, beater – pulp and paper **9614**
operator helper, casting wheel **9611**
operator helper, metal pickler **9612**
operator helper, service rig **8615**
operator helper, welding rod extruder – primary metal processing **9611**
operator trainee, multi-function metal-cutting tool **9511**
operator, air breaker **7611**
operator, air conditioning systems **7351**
operator, amusement attraction **6671**
operator, amusement concession **6671**
operator, amusement ride **6671**
operator, animation camera **5223**
operator, anode paste plant **9411**
operator, anode press **9411**
operator, asbestos board machine **9414**
operator, asphalt plant **7421**
operator, automatic edger – sawmill **9431**
operator, automatic jigger – clay products **9414**
operator, automatic nailing machine – woodworking **9513**
operator, automatic shaper – woodworking **9513**
operator, automatic typewriter **1411**
operator, baling machine – agriculture **8431**
operator, band saw – woodworking **9513**
operator, batch still **9421**
operator, beading machine – metal products manufacturing **9516**
operator, beauty culture **6482**
operator, beauty treatment **6482**
operator, belt sander – woodworking **9513**
operator, bindery **9473**

operator, bindery machine – printing **9473**
operator, binding and finishing machine **9473**
operator, bleach plant – pulp and paper **9233**
operator, bleacher – pulp and paper **9233**
operator, bleaching range – textile manufacturing **9443**
operator, blender – plastic manufacturing **9422**
operator, boiler **7351**
operator, bolt machine **9516**
operator, bookbinding machine **9473**
operator, book-cutting machine **9473**
operator, book-sewing machine – printing **9473**
operator, boom microphone **5227**
operator, boom truck hoist **7371**
operator, boring machine – metal machining **9511**
operator, boring machine – woodworking **9513**
operator, boring mill – concrete products **9414**
operator, boring mill – metal machining **9511**
operator, brick kiln – clay products **9414**
operator, brick presser – clay products **9414**
operator, brick-cutting machine – clay products **9414**
operator, brick-moulding machine – clay products **9414**
operator, broadcast transmitter **5224**
operator, broadcasting control **5224**
operator, broadcasting transmitter **5224**
operator, brush coater – concrete products **9414**
operator, buggy – primary metal processing **9611**
operator, bus **7412**
operator, button machine **9517**
operator, cable car **6671**
operator, cable skidder **8421**
operator, cable yarding system **8241**
operator, cable-braiding machine **9516**
operator, calender – pulp and paper **9433**
operator, can machine **9516**
operator, can-making machine **9516**
operator, carbon-paper-making machine **9435**
operator, cardboard box press **9435**
operator, carousel **6671**
operator, carpet-tufting machine **9442**
operator, carton-making machine **9435**
operator, carver – woodworking **9513**
operator, carving machine – woodworking **9513**
operator, catalytic conversion **9232**
operator, cement gun **7611**
operator, cement pipe shaper – concrete products **9414**
operator, central control – cement manufacturing **9231**
operator, central control room – primary metal and mineral products processing **9231**
operator, ceramic tile press – concrete products **9414**
operator, Cerlox binder – printing **9473**
operator, chain saw – logging **8421**
operator, chain-link fence machine **9516**
operator, chemical plant **9421**
operator, chemical process **9232**
operator, chemical process unit **9232**
operator, chemical processing machine **9421**
operator, chipping machine – logging **8241**
operator, chlorination plant **9232**
operator, chucking and boring machine – woodworking **9513**
operator, chucking machine – woodworking **9513**
operator, chute gate – underground mining **8411**
operator, cinder block machine – concrete products **9414**
operator, circular saw – woodworking **9513**
operator, clay dry press **9414**
operator, clay press **9414**
operator, clay products machine **9414**
operator, clearing saw – forestry **8422**
operator, CNC (computer numerically controlled) woodworking machine tool **9513**
operator, coal-moving equipment **7452**
operator, coating machine – pulp and paper **9234**
operator, coke calciner **9411**
operator, coke oven door **9411**
operator, cold mill – primary metal processing **9231**
operator, collating machine – printing **9473**
operator, compressor station – pipelines **9232**
operator, computer **2281**
operator, computer peripheral equipment **2281**
operator, concrete block machine **9414**
operator, concrete hydraulic press **9414**
operator, concrete products machine **9414**
operator, concrete-spinning machine **9414**
operator, continuous casting machine – primary metal processing **9231**
operator, continuous glue machine – printing **9473**
operator, contour-grinding machine – concrete, clay and stone products **9414**
operator, control panel – chemical processing **9232**
operator, control room – pulp and paper **9233**
operator, conveyor – material handling (except underground mines) **7452**
operator, conveyor – underground mining **8411**

operator, conveyor belt (except underground mines) **7452**
operator, cooper's head saw – woodworking **9513**
operator, copy camera – photographic processing **9474**
operator, core-winding machine – paper converting **9435**
operator, cork-splitting machine **9513**
operator, corrugator – paper converting **9435**
operator, covering machine – printing **9473**
operator, crane and claw – logging **8241**
operator, credit card die cutter – printing **9473**
operator, crosscut saw – woodworking **9513**
operator, crusher – underground mining **8411**
operator, cupola – concrete, clay and stone products **9414**
operator, cut-off saw – woodworking **9513**
operator, cutter – concrete, clay and stone products **9414**
operator, cutter – printing **9473**
operator, cutting and creasing press – paper converting **9435**
operator, cutting machine – printing **9473**
operator, dado – woodworking **9513**
operator, dado saw – woodworking **9513**
operator, decorating kiln – clay products **9414**
operator, delimber **8241**
operator, desulphurizing unit **9232**
operator, developing machine – photographic processing **9474**
operator, die-cutting machine – paper products **9435**
operator, die-cutting or die-numbering press – printing **9473**
operator, die-cutting platen press **9473**
operator, digester – pulp and paper **9233**
operator, dimension planer – woodworking **9513**
operator, distillation equipment **9232**
operator, door-hanging machine – woodworking **9513**
operator, dovetail machine – woodworking **9513**
operator, dowel machine – woodworking **9513**
operator, drain tile auger machine – clay products **9414**
operator, drawer-in machine – textiles **9442**
operator, drill – woodworking **9513**
operator, drill press – metal machining **9511**
operator, drill press – stone products **9414**
operator, drop-pinning machine – textiles **9442**
operator, drum sander – woodworking **9513**
operator, dry pan – stone products **9414**
operator, dry press – clay products **9414**
operator, dryer and cooler – tobacco processing **9464**
operator, dye-range – textile manufacturing **9443**
operator, edge bander – woodworking **9513**
operator, EDM (electrical discharge machine) **9511**
operator, electrical discharge machine (EDM) **9511**
operator, electrolysis **6482**
operator, electronic warfare – military **6464**
operator, elevator **6683**
operator, embossing machine – footwear manufacturing **9517**
operator, embossing press – printing **9473**
operator, embroidery machine **9442**
operator, engraving machine **9517**
operator, entering machine – textiles **9442**
operator, epoxy-pouring machine **9517**
operator, extruder – concrete, clay and stone products **9414**
operator, facial treatment **6482**
operator, farm machinery **8431**
operator, feller-buncher **8241**
operator, felt-making machine **9442**
operator, ferris wheel **6671**
operator, fibreglass-spinning machine – plastic manufacturing **9422**
operator, fibreglass-spraying machine **9422**
operator, film-printing machine **9474**
operator, film-processing machine **9474**
operator, filter – petroleum, gas and chemical processing **9232**
operator, finishing machine – printing **9473**
operator, fish culture **8257**
operator, fish farm **8257**
operator, fish hatchery **8257**
operator, flatbed press – plastic manufacturing **9422**
operator, foamed-plastic-producing machine **9422**
operator, foil-stamping platen press **9473**
operator, folder – printing **9473**
operator, folding machine – printing **9473**
operator, forklift **7452**
operator, forklift truck **7452**
operator, formatter – typesetting **1423**
operator, forming machine – concrete, clay and stone products **9414**
operator, forming room – electrical equipment manufacturing **9487**
operator, forwarder – logging **8241**
operator, foundation drill **7372**

operator, fourdrinier machine – pulp and paper **9234**
operator, fractionator – petroleum **9232**
operator, frame table – woodworking **9513**
operator, fun house **6671**
operator, gambling table **6443**
operator, game booth **6671**
operator, game concession **6671**
operator, gang ripsaw – woodworking **9513**
operator, gasoline truck **7411**
operator, gathering machine – printing **9473**
operator, gel coat sprayer – plastic manufacturing **9422**
operator, glost kiln – clay products **9414**
operator, glue machine – woodworking **9513**
operator, gluing and folding machine – printing **9473**
operator, gondola **6671**
operator, grain conveyor **7452**
operator, grapple loader – logging **8241**
operator, grapple skidder **8421**
operator, grapple yarder – logging **8241**
operator, greenhouse **8254**
operator, greenware turner – clay products **9414**
operator, grinder – chemical processing **9421**
operator, grooving machine – woodworking **9513**
operator, guillotine – printing **9473**
operator, hair-rooting machine – toy manufacturing **9517**
operator, hand truck **7452**
operator, harvester machine **8431**
operator, hatmaking machine **9517**
operator, head saw – sawmill **9431**
operator, heavy construction-equipment **7421**
operator, heavy water chemical process **9232**
operator, hoop-punching and hoop-coiling machine – metal products manufacturing **9516**
operator, hop-picking machine **8431**
operator, horizontal boring machine – woodworking **9513**
operator, horticultural greenhouse **8254**
operator, hot press – clay products **9414**
operator, hydroponic greenhouse **8254**
operator, injection moulding – plastic manufacturing **9422**
operator, inserting machine – printing **9473**
operator, insulation machine – metal products manufacturing **9516**
operator, insulation mat machine – stone products **9414**
operator, jackhammer – construction **7611**
operator, jacquard card-cutting machine – textiles **9442**
operator, jacquard card-lacing machine – textiles **9442**
operator, jacquard machine **9442**
operator, J-bar **6671**
operator, jigger – clay products **9414**
operator, jigsaw – woodworking **9513**
operator, knitting machine **9442**
operator, knotting machine – textiles **9442**
operator, laminating machine – printing **9473**
operator, laser beam machine welder **7265**
operator, lathe – concrete products **9414**
operator, lathe – metal machining **9511**
operator, lathe machining **9511**
operator, leather gloves stitching machine **9451**
operator, leveller – woodworking **9513**
operator, lift truck **7452**
operator, lime mixer **9414**
operator, linehorse **8241**
operator, Linotype composing machine **1423**
operator, liquefaction plant **9232**
operator, liquid waste treatment plant **9424**
operator, loading pocket – underground mining **8411**
operator, log cut-off – sawmill **9431**
operator, log loader **8241**
operator, log loading machine **8241**
operator, logging crane **8241**
operator, logging machinery **8241**
operator, logging tractor **8421**
operator, loom **9442**
operator, lumber kiln **9434**
operator, machine tool – metal machining **9511**
operator, machines – motor vehicle manufacturing **9482**
operator, master control room (MCR) equipment – broadcasting **5224**
operator, mattress-sewing machine **9442**
operator, mechanical harvester – logging **8241**
operator, mechanical tamper – railway **7432**
operator, mechanical tree processor – logging **8241**
operator, merry-go-round **6671**
operator, metal products manufacturing machine **9516**
operator, metal-pipe cutter **9516**
operator, metal-pipe-cutting machine **9516**
operator, mixer – chemical processing **9421**
operator, mobile broadcasting equipment **5224**
operator, mobile chipper – logging **8241**
operator, mortiser – woodworking **9513**

operator, mortising machine – woodworking **9513**
operator, moulder – plastic manufacturing **9422**
operator, multidrum sander **9434**
operator, nailing machine – woodworking **9513**
operator, needle loom **9442**
operator, negative-contact-frame **9474**
operator, net-knitting machine – textiles **9442**
operator, netting-making machine – textiles **9442**
operator, network **2281**
operator, nitric acid oxidation plant **9232**
operator, numbering machine – printing **9473**
operator, nursery **8254**
operator, office machines **1411**
operator, orthophosphate wet mix **9421**
operator, oxygen recovery plant **9232**
operator, P.A. (public address) **5225**
operator, P.A. (public address) systems **5225**
operator, packaging machine – chemical processing **9421**
operator, pad mangle – textiles **9442**
operator, padding machine – textiles **9442**
operator, pallet lift **7452**
operator, pallet truck **7452**
operator, panel – chemical processing **9232**
operator, panel saw – woodworking **9513**
operator, panelboard – pulp and paper **9234**
operator, paper bag machine **9435**
operator, paper box machine **9435**
operator, paper machine **9234**
operator, paper slitter **9435**
operator, particleboard **9434**
operator, pebble mill – stone products **9414**
operator, perfect binder – printing **9473**
operator, perforator – printing **9473**
operator, periodic kiln – clay products **9414**
operator, peripherals **2281**
operator, petroleum process **9232**
operator, petroleum refinery **9232**
operator, pharmaceutical processing **9232**
operator, photographic and film processing machine **9474**
operator, picker truck **8241**
operator, pile-driving hammer **7421**
operator, pill-coating machine **9517**
operator, pinning machine – textiles **9442**
operator, pipe extrusion machine – plastic manufacturing **9422**
operator, pipeline mandrel **7611**
operator, planer – stone products **9414**
operator, planer – woodworking **9513**
operator, plasterboard machine **9414**
operator, plastic footwear moulder **9422**
operator, platen press – paper converting **9435**
operator, plywood press **9434**
operator, polishing machine – metal products manufacturing **9516**
operator, polymerization unit **9232**
operator, pony ride **6671**
operator, portable diamond drill and saw **9414**
operator, power saw – woodworking **9513**
operator, power switchboard – chemical processing **9232**
operator, press – electrical equipment manufacturing **9487**
operator, printing machine – printing **9471**
operator, prism maker **9517**
operator, production – chemical processing **9232**
operator, profile saw – jewellery manufacturing **9517**
operator, profiling shaper – woodworking **9513**
operator, public address (P.A.) **5225**
operator, public address (P.A.) systems **5225**
operator, pug mill – clay products **9414**
operator, pulp refiner – pulp and paper **9432**
operator, pulp washer – pulp and paper **9432**
operator, pulping group – pulp and paper **9233**
operator, pulpwood harvester **8241**
operator, pumphouse – water treatment **9424**
operator, pumping station – water treatment **9424**
operator, purification – chemical processing **9232**
operator, quilting machine **9442**
operator, radial-arm saw – woodworking **9513**
operator, railway equipment **7432**
operator, railway tie injector **7432**
operator, ram press – clay products **9414**
operator, reach truck **7452**
operator, refinery **9232**
operator, resaw – sawmill **9431**
operator, retarder – railway yard **7431**
operator, ribbing machine – textiles **9442**
operator, ripsaw – stone products **9414**
operator, roaster – primary metal processing **9231**
operator, rock wool – stone products **9414**
operator, rolling mill control – primary metal processing **9231**
operator, rope tow **6671**
operator, rotary drilling machine **7372**
operator, rough mill – woodworking **9513**
operator, rough planer – woodworking **9513**
operator, rounding and backing machine – printing **9473**
operator, router – woodworking **9513**
operator, rubber-cutting machine **9423**

operator, saddle stitching machine – printing **9473**
operator, sandblast – stone products **9414**
operator, sandblaster – metal products manufacturing **9612**
operator, saw – woodworking **9513**
operator, sawing machine – woodworking **9513**
operator, scarification equipment – forestry **8422**
operator, scarifier – silviculture **8422**
operator, scoreboard **5253**
operator, scroll-quilting machine **9442**
operator, scrubber **9411**
operator, sealer – motor vehicle manufacturing **9482**
operator, sewage plant **9424**
operator, sewing machine **9451**
operator, shaper – woodworking **9513**
operator, shaver – woodworking **9513**
operator, sheeter – pulp and paper **9433**
operator, shooting gallery **6671**
operator, shortwood harvester **8241**
operator, shuttle car **8411**
operator, side boom tractor **7421**
operator, side stitching machine – printing **9473**
operator, skate press **9517**
operator, ski lift **6671**
operator, ski tow **6671**
operator, skidder – logging **8421**
operator, slasher – logging **8241**
operator, slasher sawyer – logging **8241**
operator, slitter-creaser – paper converting **9435**
operator, snowmaking equipment **6671**
operator, snowmaking machine **6671**
operator, soap flake dryer **9421**
operator, spacing saw – forestry **8422**
operator, spindle carver – woodworking **9513**
operator, spiral weaving machine – metal products manufacturing **9516**
operator, splitter – sawmill **9431**
operator, spring assembly machine **9516**
operator, spring machine **9516**
operator, spring-coiling machine **9516**
operator, spring-making machine **9516**
operator, spring-winding machine **9516**
operator, stacker – material handling **7452**
operator, stave machine – woodworking **9513**
operator, steam plant **7351**
operator, steam tank – stone products **9414**
operator, steel spar **8241**
operator, steel wool machine **9516**
operator, stitcher – printing **9473**
operator, stitcher-trimmer – printing **9473**
operator, stone products machine **9414**
operator, stonework drill press **9414**
operator, stonework sandblast **9414**
operator, stonework saw **9414**
operator, straddle carrier **7452**
operator, straddle truck **7452**
operator, streetcar **7412**
operator, subway **7412**
operator, sulphonator – chemical processing **9421**
operator, surface planer – woodworking **9513**
operator, swing-type lathe – woodworking **9513**
operator, switchboard **1414**
operator, tamper **7611**
operator, T-bar **6671**
operator, telephone answering service **1414**
operator, telephone central **1424**
operator, tennis ball maker **9517**
operator, tent frame machine **9516**
operator, test desk – telecommunications **7246**
operator, thermomechanical pulp **9233**
operator, threshing machine **8431**
operator, tier lift truck **7452**
operator, tital liquor plant **9421**
operator, tobacco harvesting machine **8431**
operator, track liner – railway **7432**
operator, track maintenance machine – railway **7432**
operator, track-surfacing machine – railway **7432**
operator, train **2275**
operator, transfer hoist **8411**
operator, transfer press **9471**
operator, transformer coil impregnator – electrical equipment manufacturing **9484**
operator, transmission control studio **5224**
operator, tree nursery **8254**
operator, tree processor – logging **8241**
operator, trim saw – woodworking **9513**
operator, trimmer – sawmill **9431**
operator, trimming and boring machine – woodworking **9513**
operator, truck **7411**
operator, tufting machine – textiles **9442**
operator, tunnel kiln – clay products **9414**
operator, turning machine – woodworking **9513**
operator, turntable – railway yard **7431**
operator, urban transit **7412**
operator, vibrator – seismic prospecting **8615**
operator, video transmission control studio **5224**
operator, wash-house and recovery equipment – chemical processing **9421**
operator, wastewater treatment plant **9424**
operator, water filtration plant **9424**

operator, water plant pump **9424**
operator, water purification plant **9424**
operator, water treatment plant **9424**
operator, waterworks pumping station **9424**
operator, welding rod extruder **9516**
operator, wheelabrator – metal products manufacturing **9612**
operator, wire bundle machine **9516**
operator, wire coiner **9516**
operator, wire loom **9516**
operator, wire loop machine **9516**
operator, wire saw – concrete, clay and stone products **9414**
operator, wire-crimping machine **9516**
operator, wire-netting machine **9516**
operator, wobble saw – woodworking **9513**
operator, wood lathe – woodworking **9513**
operator, wood saw – woodworking **9513**
operator, wood-carving machine **9513**
operator, wood-turning lathe – woodworking **9513**
operator, word processor **1411**
operator-assembler, electrical appliances **9484**
operator-cutter, corrugating machine – paper converting **9435**
ophthalmic assistant **3235**
ophthalmic device dispenser **3231**
ophthalmic dispenser **3231**
ophthalmic goods bench worker **3414**
ophthalmic lab technician – retail **3414**
ophthalmic laboratory technician – retail **3414**
ophthalmic lens bench worker **3414**
ophthalmic lens cutter **3414**
ophthalmic lens edge grinder **3414**
ophthalmic lens grinder **3414**
ophthalmic lens grinder and polisher **3414**
ophthalmic lens grinder-polisher setter **3414**
ophthalmic lens inspector **3414**
ophthalmic lens marker **3414**
ophthalmic medical assistant **3235**
ophthalmic medical technician **3235**
ophthalmic medical technologist **3235**
ophthalmic technician (except retail) **3235**
ophthalmic technologist **3235**
ophthalmologist **3111**
ophthalmologist assistant **3235**
ophthalmology, chief of **0311**
opinion polling statistician **2161**
opposition leader **0011**
optical communications engineer **2147**
optical communications hardware engineer **2147**
optical device dispenser **3231**
optical draftsperson **2253**
optical effects co-ordinator **5226**
optical element cleaner **9619**
optical element coater – non-prescription **9517**
optical frame fitter **3231**
optical glass etcher (non-prescription) **9517**
optical goods inspector **3414**
optical instrument assembler **9498**
optical instrument assembly foreman/woman **9227**
optical instrument calibrator **9498**
optical instrument driller – non-prescription **9517**
optical instrument maker **9498**
optical instrument manufacturing foreman/woman **9227**
optical lab mechanic – retail **3414**
optical laboratory assistant **3414**
optical laboratory technician **3414**
optical laboratory technician – retail **3414**
optical lens edger, precision – non-prescription **9517**
optical lens grinder and polisher **3414**
optical lens grinder, precision – non-prescription **9517**
optical lens inspector **3414**
optical lens polisher, precision – non-prescription **9517**
optical mechanic **3414**
optical mirror coater operator **9517**
optical spectroscopist **2112**
optical systems engineer – telecommunications **2147**
optical technician **3414**
optician **3231**
optician, dispensing **3231**
optician, student **3231**
OptiCopy and stripping foreman/woman – printing **7218**
OptiCopy keypunch operator – printing **9472**
OptiCopy keypuncher – printing **9472**
OptiCopy machine operator – printing **9472**
OptiCopy offline programmer – printing **9472**
OptiCopy program tape preparer – printing **9472**
optics physicist **2111**
optics technologist **2241**
options trader **1113**
optometric technician **3414**
optometrist **3121**
optometrist assistant **3414**
OR (operating room) nurse **3152**
oral and dental surgeon **3113**
oral and maxillofacial surgeon **3113**

oral interpreter **5125**
oral medicine specialist **3113**
oral pathologist **3113**
oral pathology and maxillofacial surgery specialist **3113**
oral radiologist **3113**
oral surgeon **3113**
orator – government **0011**
orchard foreman/woman **8253**
orchard worker **8431**
orchestra artistic director **5132**
orchestral conductor **5132**
orchestrator **5132**
orchestrator-arranger **5132**
order clerk **1453**
order clerk, manufacturing **1473**
order desk agent **1453**
order filler – retail **6622**
order picker **6622**
order transcriber **1411**
order typist **1411**
orderly **3413**
ordinary seaman/woman **7433**
ore buyer **1225**
ore crushing helper **9611**
ore crushing worker **9411**
ore dryer operator **9411**
ore grinding worker **9411**
ore handling operator – underground mining **8411**
ore milling foreman/woman **9211**
ore milling supervisor **9211**
ore milling worker **9411**
ore processing labourer **9611**
ore roaster **9231**
ore sample tester – mineral products processing **9415**
ore sampler – mineral products processing **9415**
ore screen tender **9411**
ore screener **9411**
ore separator tender – primary metal and mineral products processing **9411**
ore technologist **2212**
orepass tender – underground mining **8411**
ore-processing equipment mechanic **7311**
ore-processing equipment repairer helper **7612**
organ teacher – private, conservatory or studio lessons **5133**
organ tuner **7445**
organic chemist **2112**
organic mass spectroscopist **2112**
organist **5133**
organization and methods officer **1122**
organization and methods researcher **1122**
organization and productivity project manager **1221**
organization and productivity project officer **1221**
organization rules analysis manager **0114**
organizational analysis consultant **1122**
organizational analyst **1122**
organizational methods analysis director **0123**
organizational methods analysis director – business services **0123**
organizational methods analysis manager **0123**
organizational planning and development director **0123**
organizational psychologist **4151**
organizational rules analysis manager **0114**
organizer, advertising campaign **1122**
organizer, special events **1226**
organometallic chemist **2112**
Oriental medical practitioner **3232**
Oriental rug repairer **7445**
orientation and mobility instructor **4215**
orientation and mobility instructor for persons who are blind **4215**
orientation and mobility teacher **4215**
orientation and mobility teacher for persons who are blind **4215**
ornament maker, hats **9498**
ornament setter **9517**
ornamental caster – foundry **9412**
ornamental design caster **9517**
ornamental glass production worker **9413**
ornamental iron erector helper **7611**
ornamental ironworker **7264**
ornamental metal worker – metal fabrication **9514**
ornamental metal worker helper **7611**
ornamental plasterer **7284**
ornamental stone setter – jewellery manufacturing **9619**
ornamental-metal worker **7264**
ornamenter – furniture finishing and refinishing **9494**
ornithological technician **2221**
ornithological technologist **2221**
ornithologist **2121**
ornithology centre interpreter **5212**
ornithology curator **5112**
ornithology museum curator **5112**
orthodontic band maker **3223**
orthodontic dental technician **3223**
orthodontic hygienist **3222**
orthodontic prosthesis maker **3223**
orthodontic technician **3223**

orthodontist **3113**
orthopedic appliance assembler **3219**
orthopedic assistant **3414**
orthopedic mechanic **3219**
orthopedic physician assistant **3414**
orthopedic shoe repairman/woman **7343**
orthopedic shoemaker **7343**
orthopedic shoes salesperson – retail **6421**
orthopedic supervisor **3414**
orthopedic surgeon **3111**
orthopedic technician **3414**
orthopedic technologist **3414**
orthopedics specialist **3111**
orthopedist **3111**
orthopedist aide **3414**
orthophosphate wet mix operator **9421**
orthoptist **3123**
orthotic corset maker **3219**
orthotic technician **3219**
orthotist **3219**
orthotist-prosthetist **3219**
osteologist **2121**
osteopath **3123**
osteopathic doctor **3123**
osteopathic medicine doctor **3123**
osteopathic physician **3123**
OT (occupational therapist) **3143**
otolaryngologist **3111**
otologist **3111**
otorhinolaryngologist **3111**
otter trawl fisherman/woman **8262**
outboard motor assembler – mechanical assembly **9486**
outboard motor assembly foreman/woman **9226**
outboard motor inspector and tester **9486**
outboard motor installer **9491**
outboard motor installer-fitter **9491**
outboard motor mechanic **7335**
outboard motor prototype tester **9486**
outbound customer service representative **1453**
outdoor guide **6442**
outdoor power equipment technician **7335**
outfitter **6442**
outfitting guide **6442**
out-patient clinic nurse **3152**
outplacement consultant **4213**
outplacement counsellor **4213**
outplacement relocation specialist **4213**
outpost nurse **3152**
output compositor – typesetting **1423**
output operator – typesetting **1423**
outreach counsellor, employment **4213**
outreach nurse **3152**
outreach program co-ordinator, employment **4213**
outreach program counsellor, employment **4213**
oven equipment repairer **7311**
oven foreman/woman – chemical processing **9212**
oven loader – chemical processing **9613**
oven operator, electrodes **9421**
oven tender – painting and coating **9496**
overcaster – garment manufacturing **9451**
overcasting machine operator **9451**
overedging machine operator **9451**
overhaul planner **1473**
overhauler, textile machine **7317**
overhead crane operator **7371**
overhead dado operator – woodworking **9513**
overhead door installer **7441**
overhead electrical distribution engineer **2133**
overlock sewing machine operator **9451**
overseamer – garment manufacturing **9451**
owner, retail store **0621**
oxyacetylene torch welder **7265**
oxyacetylene welder **7265**
oxygen furnace foreman/woman – primary metal and mineral products processing **9211**
oxygen furnace operator – primary metal processing **9231**
oxygen recovery plant operator **9232**
oxygen therapy technician **3214**
oxyhydrogen welder **7265**
oyster canner – fish processing **9463**
oyster culture technician **2221**
oyster farmer **8257**
oyster grower **8257**
oyster harvester **8613**
oyster packer – fish processing **9463**
oyster picker **8613**
oyster picker-shucker **8613**
oyster shucker – fish processing **9463**
oyster washer tender – fish processing **9463**

P

P.A. (public address) operator **5225**
P.A. (public address) system announcer **5231**
P.A. (public address) system operator **5225**
P.Ag. (professional agrologist) **2123**
P.Dt. (professional dietitian) **3132**
pacemaker assembler – electronic equipment manufacturing **9483**
pack boy/girl **6622**
package designer **5241**

package lift operator **7452**
package tour sales manager **0611**
package underwriter – insurance **1234**
packager – laundry and dry cleaning **6681**
packager – manufacturing **9619**
packager, bakery products **9617**
packager, machine **9619**
packager, poultry **9617**
packager, seeds **9619**
packaging company labourer **9619**
packaging line worker **9619**
packaging machine adjuster **9461**
packaging machine mechanic **7311**
packaging machine operator – chemical processing **9421**
packaging machine operator – food processing **9461**
packaging manufacturing plant manager **0911**
packaging supervisor – food and beverage processing **9213**
packaging tester **9498**
packaging tester and inspector **9498**
packer **9619**
packer – material handling **7452**
packer operator – tobacco products **9464**
packer, boxes **9619**
packer, cases **9619**
packer, fruit – agriculture **8611**
packer, furniture **9619**
packer, garments – garment manufacturing **9619**
packer, glass **9611**
packer, insulation – rubber products manufacturing **9615**
packer, liquid **9617**
packer, oysters – fish processing **9463**
packer, tobacco **9617**
packer, vegetables – agriculture **8611**
packer-wrapper attendant – papermaking **9433**
packing carton assembler **9435**
packing machine set-up operator **9461**
pad gluer, machine – paper converting **9435**
pad mangle operator – textiles **9442**
padded dashboard maker – plastic products manufacturing **9495**
padded products repairer **9423**
padder tender – textile manufacturing **9443**
padding cutter – furniture assembly **9619**
padding labourer **9619**
padding machine operator – textiles **9442**
padding machine tender – textile manufacturing **9443**
paddle maker – woodworking **9513**
paddock blacksmith – racetrack **5253**
paddock horseshoer – racetrack **5253**
paddock judge – racetrack **5253**
paddock plater – racetrack **5253**
pad-extractor tender – textile manufacturing **9443**
page compositor **1423**
page designer **5241**
page maker-up **1423**
page, library **1451**
pai gow croupier **6443**
pai gow domino croupier **6443**
pai gow poker croupier **6443**
pail handle inserter **9619**
paint and mix production and control operator **9496**
paint and varnish dipper operator **9496**
paint baker, enamelware – glass products manufacturing **9413**
paint baking oven tender **9496**
paint brush final assembler **9498**
paint control operator **9496**
paint department foreman/woman – furniture and fixtures manufacturing **9224**
paint department foreman/woman – motor vehicle manufacturing **9221**
paint department foreman/woman – railway rolling stock manufacturing **9226**
paint department foreman/woman – shipbuilding **9226**
paint department supervisor – plastic products manufacturing **9214**
paint department supervisor – rubber products manufacturing **9214**
paint department technician – motor vehicle manufacturing **9482**
paint dipper – flow coating **9496**
paint machine operator **9496**
paint maker **9421**
paint making foreman/woman **9212**
paint mixer **9421**
paint plant labourer **9613**
paint pourer **9613**
paint processing foreman/woman **9212**
paint production operator **9496**
paint repairman/woman, finished vehicles **9496**
paint roller cover trimmer **9517**
paint roller winder **9619**
paint room attendant **9496**
paint salesperson – retail **6421**
paint shop foreman/woman – motor vehicle manufacturing **9221**

paint shop supervisor – motor vehicle manufacturing **9221**
paint spray inspector **9496**
paint store manager **0621**
paint stripper **9619**
paint systems attendant **9496**
paint systems operator **9496**
paint technician **2211**
paintbrush-head maker **9517**
painter **7294**
painter – motor vehicle manufacturing **9496**
painter – motor vehicle repair **7322**
painter – visual arts **5136**
painter and decorator **7294**
painter and decorator apprentice **7294**
painter and decorator helper **7611**
painter and letterer, railway cars **9496**
painter and paperhanger **7294**
painter foreman/woman – construction **7219**
painter foreman/woman, shipyard **9226**
painter helper – construction **7611**
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painter helper, shipyard **9619**
painter, airbrush **9496**
painter, aircraft **9496**
painter, animated cartoons **5223**
painter, animation **5223**
painter, assembly line **9496**
painter, automobile assembly **9496**
painter, automobiles – motor vehicle manufacturing **9496**
painter, automobiles – motor vehicles repair **7322**
painter, boilers **9496**
painter, commercial buildings **7294**
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painter, construction **7294**
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painter, enamel **9496**
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painter, industrial products **9496**
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painter, motor vehicles – motor vehicles repair **7322**
painter, pavement lines **7611**
painter, posters **5223**
painter, products **9496**
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painter-decorator **7294**
painter-finisher, production **9496**
painters and decorators foreman/woman **7219**
painters and decorators supervisor **7219**
painters foreman/woman – metal products manufacturing **9226**
painting and wallpapering contractor **7219**
painting contractor **7219**
painting machine attendant **9496**
painting machine operator **9496**
painting machine tender **9496**
painting supervisor – construction **7219**
paintings conservator **5112**
paintings restoration technician **5212**
paint-sprayer operator **9496**
paleobotanist **2113**
paleoecologist **2113**
paleontologist **2113**
paleontology technician **2212**
pallet lift operator **7452**
pallet loader operator **7452**
pallet maker, wood **9493**
pallet truck operator **7452**
palletizer operator **7452**
palliative care nurse **3152**
palm reader **6484**
palynologist **2113**
palynology technician **2212**
pan tender **9411**
panel board operator – primary metal and mineral products processing **9231**
panel finisher, packing trunks – woodworking **9513**
panel inspector – wood processing **9436**
panel jointer machine tender – woodworking **9513**
panel jointer, machine – woodworking **9513**
panel matcher, wood **9493**
panel operator – chemical processing **9232**
panel operator – pulp and paper **9233**
panel raiser operator – woodworking **9513**
panel saw operator – woodworking **9513**
panel saw tender, computerized – woodworking **9513**
panelboard assembler – industrial electrical equipment **9485**
panelboard operator – pulp and paper **9234**

panel-groover operator – wood processing **9434**
panelling assembler, automotive doors – plastic products manufacturing **9495**
panel-sanding machine operator – wood processing **9434**
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pantograph burner – metal fabrication **9514**
pantograph engraver – arts and crafts **5244**
pantograph flame cutter – metal fabrication **9514**
pantograph milling machine set-up operator **9511**
pantograph setter **9472**
pantographer – printing **9472**
pantry worker – food and beverage processing **9461**
paper bag machine operator **9435**
paper bag machine tender **9435**
paper bag maker **9435**
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paper box machine tender **9435**
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paper conservator **5112**
paper converting supervisor **9215**
paper cup machine tender – paper converting **9435**
paper cutter – paper converting **9435**
paper cutter, carbon **9435**
paper feeder, press – printing **9619**
paper foreman/woman – pulp and paper **9215**
paper grader **9433**
paper industry sales consultant **6411**
paper inspectors foreman/woman – pulp and paper **9215**
paper jogger operation – pulp and paper **9433**
paper latcher – construction **7611**
paper machine control operator **9234**
paper machine foreman/woman – pulp and paper **9215**
paper machine hand **9433**
paper machine operator **9234**
paper machine winderman/woman **9433**
paper maker **9234**
paper mill foreman/woman **9215**
paper mill manager **0911**
paper mill supervisor **9215**
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parachute preparer **9619**
parachute stringer **9498**
paradichlorobenzene equipment tender **9421**
paralegal **4211**
paramedic **3234**
paramedic worker **3234**
paramedical equipment repairer **2241**
parasitologist **2121**
parasitologist, veterinary **3114**
parasitology biologist **2121**
parcel post clerk **1461**
parcel processing plant manager **0132**
parcels deliverer, courier service **1463**
parent therapist **4153**
parent, foster **6471**
parent's helper **6474**
parish priest **4154**
park attendant **6671**
park caretaker **8256**
park interpreter **5212**
park labourers supervisor **8256**
park maintenance head **8256**
park maintenance labourer **8612**

park maintenance supervisor **8256**
park naturalist **2121**
park planner **2153**
park planner, municipal **2153**
park ranger **2224**
park receptionist **6671**
park section head – arboriculture **8256**
park superintendent – government services **0412**
park supervisor **6216**
park supervisor, grounds maintenance **8256**
park worker **8612**
parking control officer **6463**
parking co-ordinator **1221**
parking garage operator **0621**
parking lot attendant **6683**
parking lot cashier **6611**
parking lot operator **0621**
parking lot supervisor **6216**
parking meter collector **7621**
parking meter repairer **7445**
parking meter servicer **7445**
parking valet **6683**
parks administration director **0412**
parks and recreation forester **2122**
parks service director **0412**
parliamentary assistant **1222**
parliamentary committee clerk **1222**
parliamentary services director **0414**
parole board chairman/woman **0012**
parole officer **4155**
parole supervisor **4155**
parquet floor layer **7295**
particle accelerator physicist **2111**
particle board spraying machine tender **9496**
particle physicist **2111**
particleboard foreman/woman **9215**
particleboard line operator **9434**
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parts clerk **1472**
parts clerks supervisor **1215**
parts counter clerk **1472**
parts counter clerk – retail **1472**
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parts manager – retail **0621**
parts service supervisor **1215**
parts shipping manager **1215**
parts sorter **1473**
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parts technician **1472**
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party chief, land surveying **2154**
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passenger agent, airline **6433**
passenger and freight rates analyst **1114**
passenger attendant, cruise line **6672**
passenger attendant, ship **6672**
passenger operations manager, railway **0713**
passenger sales agent – airline **6433**
passenger sales representative – airline **6433**
passenger service director **6432**
passenger service representative – airline **6433**
passenger ship captain **2273**
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passenger train conductor **7362**
passenger train engineer **7361**
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passport issuer **1441**
passport office supervisor **1211**
pasta chef **6241**
pasta maker **9461**
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pasteurizer operator – food and beverage processing **9461**
pasting machine operator – electrical equipment manufacturing **9487**
pastor **4154**
pastoral animator **4217**
pastoral associate officer – military **4217**
pastry chef **6241**
pastry cook **6242**
pastry cook helper **9617**
pastry decorator **6252**
pastry decorator – retail **6252**
pastry maker **6252**
pastry sales clerk **6421**
pastry wrapper **9617**
pasture rider **8431**
pasture-managing supervisor **8253**
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patcher operator – wood processing **9434**
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patent lawyer 4112
patent searcher 4161
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pathologist, animal 3114
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pathologist, forests 2121
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pathologist, speech 3141
pathologist, speech-language 3141
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pathologist's assistant 3211
pathology assistant 3211
pathology, chief of 0311
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patient care assistant 3413
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patissier, baker 6252
patrol judge – racetrack 5253
patrol officer – police 6261
patrol officer – security 6651
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pay accounts clerk 1432
pay advisor 1432
pay and benefits administrator 1432
pay and benefits clerk 1432
pay and benefits director 0112
pay and benefits manager 0112
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payloader operator 7421
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payroll clerk **1432**
payroll machine operator **1432**
payroll officer **1432**
payroll service manager **0123**
payroll supervisor **1212**
PBX (private branch exchange) and PABX (private automatic branch exchange) inspector – telecommunications **7246**
PBX (private branch exchange) and PABX (private automatic branch exchange) installer – telecommunications **7246**
PBX (private branch exchange) and PABX (private automatic branch exchange) installer and repairer – telecommunications **7246**
PBX (private branch exchange) and PABX (private automatic branch exchange) repairer – telecommunications **7246**
PBX (private branch exchange) inspector – telecommunications **7246**
PBX (private branch exchange) repairer – telecommunications **7246**
PC (personal computer) application developer **2174**
PC (personal computer) support analyst **2282**
PCB (printed circuit board) assembler **9483**
PCB (printed circuit board) assembly inspector **9483**
PCB (printed circuit board) assembly machine operator – electronic equipment manufacturing **9483**
PCB (printed circuit board) etcher **9483**
PCB (printed circuit board) fabrication foreman/woman – electronic equipment manufacturing **9222**
PCB (printed circuit board) fabrication inspector **9483**
PCB (printed circuit board) fabrication machine operator **9483**
PCB (printed circuit board) fabrication supervisor – electronic equipment manufacturing **9222**
PCB (printed circuit board) in-circuit machine - and repairing-machine operator **9483**
PCB (printed circuit board) inspector **9483**
PCB (printed circuit board) inspector and tester – electronic equipment manufacturing **9483**
peace activist **4164**
peace officer **6261**
peace researcher **4164**
peanut butter maker **9461**
peanut-blanching machine tender – food and beverage processing **9461**
pearl cutter **7344**
pearl earring maker **9498**
pearl maker **9498**
pearl setter **7344**
pearl stringer **9498**
peat bog manager **0811**
peat digger **7612**
peat moss dehydrator tender **9411**
peat-moss-cutting machine operator **7421**
peat-moss-gathering machine operator **7421**
pebble mill operator – stone products **9414**
pedagogical co-ordinator **0312**
peddler **6623**
pedestal drill operator – metal machining **9511**
pediatric audiologist **3141**
pediatric dentist **3113**
pediatric echocardiographer **3216**
pediatric intensive care nurse **3152**
pediatric nurse **3152**
pediatric oncologist **3111**
pediatric surgeon **3111**
pediatrician **3111**
pediatrics, chief of **0311**
pedicurist **6482**
pedodontist **3113**
pedologist **2115**
pedorthist **3219**
pellet grinder – metal products manufacturing **9612**
pellet maker – foundry **9412**
pellet mill worker – food and beverage processing **9617**
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pellet segregator – primary metal processing **9411**
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pelt grader – hide and pelt processing **9454**
pelt processing inspector **9454**
pelt processing worker **9453**
pelt shearer **9453**
pelt stretcher – hide and pelt processing **9453**
pen and pencil assembler **9498**
pen and pencil inspector **9498**

penal institution guard **6462**
pen-and-pencil-knurling machine operator **9517**
pencil blank presser **9619**
pencil maker operator **9517**
pencil maker tender **9517**
pencil-coating machine tender **9496**
pencil-eraser maker tender **9517**
pencil-eraser-making machine tender **9517**
pencil-grooving machine tender **9513**
pencil-making machine operator **9517**
pencil-making machine setter **9517**
pencil-making machine tender **9517**
pencil-pointing machine tender **9517**
pencil-rounding machine tender **9513**
pencil-tip-banding machine tender **9496**
pencil-tipping machine feeder **9619**
penitentiary guard **6462**
penologist **4169**
penrider **8431**
pension plans administrator **0111**
pension plans clerk – insurance **1434**
pension services manager **0111**
pensions and benefits manager **0112**
pentathlete **5251**
perch operator – textiles **9444**
percher – textiles **9444**
percussion instrument repairer **7445**
percussionist **5133**
perfect-binder operator – printing **9473**
perfect-binder set-up operator – printing **9473**
perforating machine operator – printing **9473**
perforating machine tender – printing **9473**
perforator helper – oil field services **8615**
perforator operator – printing **9473**
perforator tender – printing **9473**
perforator, oil wells **8232**
performance movement teacher **5134**
performer, rodeo **5251**
performer, stampede **5251**
performers agent **5124**
performing arts artistic director **5131**
perfume maker **9421**
perfusion technologist **3214**
perfusionist **3214**
perfusionist, cardiovascular **3214**
perinatal care nurse **3152**
periodic kiln operator – clay products **9414**
periodic kilnman/woman – clay products **9414**
periodical managing editor **0512**
periodicals clerk – library **1451**
periodicals librarian **5111**
periodicals sales representative – wholesale **6411**
periodontal hygienist **3222**
periodontist **3113**
peripherals operator **2281**
perishable food buyer **6233**
perlite expander control panel operator – mineral products processing **9231**
permanent inventory clerk **1474**
permanent mould operator – foundry **9412**
permanent press sprayer machine **9517**
permanent press sprayer tender – garment and fabric products manufacturing **9517**
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permission manager – publishing **0512**
permit clerk **1441**
peroxide bleach plant operator – pulp and paper **9233**
personal aide **6471**
personal assistant – home care **6471**
personal banking accounts officer **1232**
personal banking representative **1232**
personal banking vice-president **0013**
personal care aide – home care **6471**
personal care aide – medical **3413**
personal care attendant – home care **6471**
personal care attendant – medical **3413**
personal care provider – home care **6471**
personal care provider – medical **3413**
personal computer (PC) application developer **2174**
personal computer salesperson – retail **6421**
personal counsellor – education **4143**
personal credit lines clerk **1434**
personal financial planner **1114**
personal image consultant **6481**
personal image counsellor **6481**
personal improvement consultant **6481**
personal lines clerk – insurance **1434**
personal lines underwriter **1234**
personal loans officer **1232**
personal secretary **1241**
personal servant **6683**
personal shopper **6623**
personal skills development instructor – social services **4212**
personal style co-ordinator **6481**
personal support aide – home aide **6471**
personal support aide – medical **3413**
personal trainer **4167**
personal trust manager **0122**
personal trust officer **1114**
personal wardrobe consultant **6481**
personnel administration manager **0112**

personnel administration officer – military **1221**
personnel administration officer (management) – military **0114**
personnel administrative officer – military **1221**
personnel administrator **1223**
personnel adviser **1223**
personnel agency manager **0123**
personnel and industrial relations director **0112**
personnel assistant **1442**
personnel chief **0112**
personnel clerks supervisor **1211**
personnel consulting service manager **0123**
personnel director **0112**
personnel interviewer **1223**
personnel management adviser **1223**
personnel manager **0112**
personnel officer **1223**
personnel recruitment officer **1223**
personnel research officer **1121**
personnel selection officer **1223**
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personnel services clerk **1442**
personnel services director **0112**
personnel services manager **0112**
personnel standards officer **1121**
personnel supervisor **1223**
personnel training and development manager **0112**
personnel vice-president – bank **0013**
personnel vice-president – financial, communications and other business services **0013**
personnel vice-president – goods production, utilities, transportation and construction **0016**
personnel vice-president – health, education, social and community services and membership organizations **0014**
personnel vice-president – trade, broadcasting and other services **0015**
pest control branch supervisor **7219**
pest control division supervisor **7219**
pest control operator **7444**
pest control representative **7444**
pest control service manager **0651**
pest control service representative **7444**
pest control supervisor **7219**
pest control technician **7444**
pest control trapper **7444**
pest controller **7444**
pest extermination representative **7444**
pest exterminator **7444**
pest fumigator **7444**
pesticide mixer **9421**
PET (positron-emission tomography) technologist **3215**
pet care services manager **0651**
pet food cook – food and beverage processing **9461**
pet groomer **6483**
pet grooming establishment manager **0651**
pet grooming salon manager **0651**
pet master groomer **6483**
pet shop attendant **6483**
pet store manager **0621**
pet store salesperson **6421**
petrochemical engineer **2134**
petrochemical engineering technician **2211**
petrochemical engineering technologist **2211**
petrochemical laboratory technologist **2211**
petrographer **2113**
petroleum chemist **2112**
petroleum distribution manager **0912**
petroleum engineer **2145**
petroleum engineer, completion **2145**
petroleum engineer, drilling and recovery **2145**
petroleum engineer, production **2145**
petroleum engineering technician **2212**
petroleum engineering technologist **2212**
petroleum exploration draftsperson **2253**
petroleum field technologist **2212**
petroleum geologist **2113**
petroleum geology department manager **0212**
petroleum geology technologist **2212**
petroleum process operator **9232**
petroleum process operator helper **9613**
petroleum processing foreman/woman **9212**
petroleum processing shift supervisor **9212**
petroleum processing tester **2211**
petroleum product sales representative – wholesale **6411**
petroleum production engineer **2145**
petroleum refiner **9232**
petroleum refinery labourer **9613**
petroleum refinery operator **9232**
petroleum refinery process engineer **2134**
petroleum refining supervisor **9212**
petroleum research manager – securities **0121**
petroleum research technologist **2211**
petroleum reservoir engineer **2145**
petroleum technician **2212**
petroleum unit operator **9232**
petroleum well completion engineer **2145**
petrologist **2113**
petrology technician **2212**

petrophysicist **2113**
pet-sitter **6483**
pet-sitting service manager **0651**
petty cash supervisor **1212**
pharmaceutical bacteriologist **2121**
pharmaceutical chemist **2112**
pharmaceutical compounding foreman/woman **9212**
pharmaceutical processing operator **9232**
pharmaceutical sales representative **6221**
pharmaceutical salesperson **6221**
pharmaceuticals and toiletries inspector **2211**
pharmaceuticals buyer **6233**
pharmaceuticals inspector **2211**
pharmaceuticals production supervisor **9212**
pharmacist **3131**
pharmacist – military **3131**
pharmacist assistant **3414**
pharmacist consultant **3131**
pharmacological chemist **2112**
pharmacologist **2121**
pharmacologist, veterinary **3114**
pharmacy aide **3414**
pharmacy assistant **3414**
pharmacy clerk **6421**
pharmacy department manager – retail **0621**
pharmacy director **0311**
pharmacy manager – retail **0621**
pharmacy professor – university **4121**
pharmacy side room attendant **3414**
pharmacy supply assistant **3414**
pharmacy technical assistant **3414**
pharmacy technician **3414**
pharmacy, chief of **0311**
pheasant breeder **8251**
pheasant farm worker **8431**
phenol plant extractor operator **9421**
philatelist **0621**
philologist **4169**
philosopher **4169**
philosophy professor – university **4121**
phlebotomist **3212**
phlebotomy aide **3212**
phone agent, personal services **6484**
phoniatrician **3111**
phoniatrist **3111**
phosphoric acid extractor **9421**
photo archivist **5113**
photo cartographer **2255**
photo developer **9474**
photo developer-printer **9474**
photo developing inspector **9474**
photo lab technician **9474**
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photo technician **9474**
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photocomposer operators supervisor **7218**
photocomposers supervisor **7218**
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photocopy machine technician **2242**
photocopy operator, colour **9471**
photocopy unit supervisor **1211**
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photoengraving etcher – printing **9472**
photoengraving finisher **9472**
photoengraving platemaker **9472**
photoengraving retoucher – printing **9472**
photofinisher **9474**
photofinishing equipment repairer **7445**
photogeologist **2113**
photogrammetric engineer **2131**
photogrammetric technician **2255**
photogrammetric technologist **2255**
photogrammetrist **2255**
photograph conservator **5112**
photograph developer **9474**
photograph developing inspector **9474**
photograph enlarger **9474**
photograph examiner **1411**
photograph filer – library **1451**
photograph inspector – photographic processing **9474**
photograph mounter **9474**
photograph retoucher **5223**
photographer **5221**
photographic airbrush artist **5223**

photographic and film processing foreman/woman **7218**
photographic and film processing supervisor **7218**
photographic and film-processing machine operator **9474**
photographic colourist **5223**
photographic enlarger operator **9474**
photographic equipment and supplies salesperson – retail **6421**
photographic equipment assembler **9498**
photographic equipment assembly inspector **9498**
photographic equipment inspector **9498**
photographic equipment store manager **0621**
photographic film printer **9474**
photographic film processor **9474**
photographic lab foreman/woman **7218**
photographic printer **9474**
photographic processing and finishing foreman/woman **7218**
photographic processor **9474**
photographic services sales representative **6411**
photographic studio clerk **6421**
photographic studio manager **0621**
photographic-film-processing machine operator **9474**
photographic-processing machine operator **9474**
photography colourist **5223**
photography museum curator **5112**
photography supervisor **5221**
photography technician – military **5221**
photogravure camera operator – printing **9472**
photojournalist **5221**
photomechanical composition typographer **1423**
photomicrographer **5221**
photopolymer platemaker **9472**
photoresist printer – electronic equipment manufacturing **9483**
phototypesetter **1423**
phototypesetter operator **1423**
phototypesetter terminal operator **1423**
phototypesetting machine operator **1423**
phrenologist **6484**
physiatrist **3111**
physical and health education teacher – secondary school **4141**
physical anthropologist **4169**
physical chemist **2112**
physical education and leisure officer – military **0513**
physical education and recreation instructor – military **5254**
physical education and recreation officer – military **0513**
physical education and recreation supervising officer – military **4167**
physical education co-ordinator – education **4166**
physical education programs director **0513**
physical education teacher – elementary school **4142**
physical education teacher – secondary school **4141**
physical geographer **4169**
physical medicine and rehabilitation specialist **3111**
physical metallurgical engineer **2142**
physical metallurgist **2115**
physical metallurgy technician **2212**
physical metallurgy technologist **2212**
physical oceanographer **2113**
physical rehabilitation technician **3235**
physical rehabilitation therapist **3142**
physical research chemist **2112**
physical science and engineering statistician **2161**
physical sciences laboratory technician **2241**
physical sciences professor – university **4121**
physical sciences program manager **0212**
physical tester – steel mill **9415**
physical therapist **3142**
physical therapist assistant (PTA) **3235**
physical therapist, research **3142**
physical therapy aide **3414**
physical therapy attendant **3414**
physical therapy clinical co-ordinator **3142**
physical therapy clinical specialist **3142**
physical therapy officer – military **3142**
physical therapy supervisor **3142**
physical therapy technician **3235**
physical training director **0513**
physical training instructor **5254**
physical training leader **5254**
physician resident **3112**
physician, community health **3111**
physician, community medicine **3111**
physician, community preventive medicine **3112**
physician, company **3112**
physician, critical care medicine **3111**
physician, emergency **3111**
physician, family **3112**
physician, general practice **3112**
physician, homeopathic **3232**
physician, industrial **3112**
physician, infectious diseases **3111**
physician, nuclear medicine **3111**

physician, occupational health **3111**
physician, preventive medicine **3111**
physician, primary care **3112**
physician, public health **3112**
physician, pulmonary medicine **3111**
physician, sports medicine **3111**
physician, tropical medicine **3111**
physician's office nurse **3152**
physicist **2111**
physicist, elementary particles **2111**
physics department electronics technologist **2241**
physics professor – university **4121**
physics research scientist **2111**
physics teacher – secondary school **4141**
physiological biophysicist **2121**
physiological chemist **2112**
physiologist **2121**
physiologist, medical **3111**
physiologist, veterinary **3114**
physiologist-biochemist – nuclear medicine **2121**
physiology professor – university **4121**
physiotherapist **3142**
physiotherapist assistant (PTA) **3235**
physiotherapist, research **3142**
physiotherapy aide **3414**
physiotherapy assistant **3414**
physiotherapy attendant **3414**
physiotherapy clinical co-ordinator **3142**
physiotherapy helper **3414**
physiotherapy supervisor **3142**
physiotherapy technician **3235**
physiotherapy, chief of **0311**
physiotherapy, director of **0311**
phytobiologist **2121**
phytopathologist **2121**
phytotherapy assistant **3414**
pianist **5133**
piano action adjuster **7445**
piano action assembler **9498**
piano action inspector-adjuster **9498**
piano action regulator **7445**
piano and organ bench worker **9498**
piano and organ finisher **9494**
piano and organ refinisher **9494**
piano assembler **9498**
piano assembly inspector **9498**
piano back assembler **9498**
piano case assembler **9498**
piano inspector **9498**
piano mechanism assembler **9498**
piano repairer **7445**
piano stringer **7445**
piano subassembler **9498**
piano teacher – private, conservatory or studio lessons **5133**
piano technician **7445**
piano tone regulator **7445**
piano tuner **7445**
piano tuner-technician **7445**
pick and place machine operator – electronic equipment manufacturing **9483**
pick remover – textile processing **9616**
picker – textile manufacturing **9441**
picker tender – textile manufacturing **9441**
picker truck operator **8241**
picker, beam press – rubber products manufacturing **9615**
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picker, seed cones **8422**
picking machine operator – textile manufacturing **9441**
picking machine tender – textile manufacturing **9441**
pickle line operator – primary metal processing **9411**
pickleman/woman – food and beverage processing **9461**
pickler – food and beverage processing **9461**
pickler – hide and pelt processing **9453**
pickler and dipper, jewellery **9619**
pickler operator – primary metal processing **9411**
pickler operator helper, metal **9612**
pickler, meat **9461**
pickling plant manager **0911**
pickling solution injector – food and beverage processing **9461**
pick-pulling machine tender **9616**
pick-up machine operator **7452**
pictographist **5241**
picture engraver – printing **9472**
picture enlarger – photographic processing **9474**
picture frame assembler – furniture and fixtures manufacturing **9492**
picture framer – museum and art gallery **5212**
picture framing consultant – retail **6421**
picture tube assembler **9483**
picture tube screen aluminizer **9483**
picture tube tester – electronic equipment manufacturing **9483**
pie dough roller **9461**
pie filling cooker **9461**
pie filling mixer **9461**
pie maker, machine **9461**
piece hauler – textile processing **9616**

pieceworker – logging **8421**
pieceworker – silviculture **8422**
pie-making machine operator **9461**
pier foreman/woman **7217**
piercing mill operator – primary metal processing **9411**
pig caster – primary metal processing **9411**
pig iron pourer **9411**
pigment presser **9613**
pile driver operator's helper **7611**
pile driver winch operator **7421**
pile driving chainman/woman **7611**
pile driving crane operator **7371**
pile driving ground worker **7611**
pile fabric finisher **9443**
pile-driving hammer operator **7421**
pile-finishing machine tender – textile manufacturing **9443**
piler – material handling **7452**
piler – printing **9619**
piler – wood processing **9614**
piler (except processing) **7452**
piler, pulpwood **8616**
pill machine operator **9517**
pill maker operator **9517**
pill-coating machine operator **9517**
pilot – air transport **2271**
pilot – military **2271**
pilot – water transport **2273**
pilot instructor **2271**
pilot plant foreman/woman – chemical processing **9212**
pilot plant technician **2211**
pilot plant technologist **2211**
pilot plant tender **9232**
pilot services dispatcher **1475**
pilot, airline **2271**
pilot, harbour **2273**
pilot, remote sensing **2271**
pilot, remote-controlled underwater vehicle – military **2255**
pilot, ship **2273**
pin maker – metal products **9516**
pin maker – wood products manufacturing **9513**
pin maker, metal **9516**
pin setter – textile manufacturing **7317**
ping-pong player **5251**
pinning machine operator – textiles **9442**
pinsetter, bowling **6671**
pipe aligner – pipeline construction **7611**
pipe and tube roll setter – primary metal processing **9411**
pipe coater-painter **9496**
pipe coremaker – foundry **9412**
pipe doper – construction **7611**
pipe extrusion machine operator – plastic manufacturing **9422**
pipe finisher – clay products **9414**
pipe fittings moulder – concrete products **9414**
pipe grader **9619**
pipe installer, radiator **7252**
pipe insulator **7293**
pipe junction maker – concrete products **9414**
pipe laying contractor **7217**
pipe locator – utilities **7442**
pipe maintenance worker, ore processing **9611**
pipe organ builder **5244**
pipe organ erector **7441**
pipe organ installer **7441**
pipe organ tuner and repairer **7445**
pipe spray painter **9496**
pipe tester – concrete products **9414**
pipe tester – nondestructive testing **2261**
pipe tester – non-destructive testing **2261**
pipe threader **9511**
pipe turner – trackman/woman **8411**
pipe-bending machine operator – metal fabrication **9514**
pipe-cleaning and covering machine operator **7611**
pipefitter **7252**
pipefitter – shipbuilding **7252**
pipefitter helper – construction **7611**
pipefitter helper – shipbuilding **7612**
pipefitter, railway cars and locomotives **7252**
pipefitter, turbines **7252**
pipefitter, welding **7252**
pipefitters foreman/woman **7213**
pipefitters supervisor **7213**
pipefitter-steamfitter **7252**
pipefitting contractor **7213**
pipelayer **7611**
pipelayer – construction **7611**
pipelayer – drainage systems **7611**
pipelayer – irrigation **7611**
pipelayer operator **7421**
pipelayer, gas – construction **7611**
pipeline air patrol pilot **2271**
pipeline caulker **7611**
pipeline compressor station operator **9232**
pipeline construction inspector **2264**
pipeline construction manager **0711**
pipeline construction superintendent **0711**
pipeline construction supervisor **7217**

pipeline engineer, civil **2131**
pipeline foreman/woman **9212**
pipeline gauger **9232**
pipeline inspector **2261**
pipeline installation supervisor **7217**
pipeline labourer **7611**
pipeline maintenance worker **7442**
pipeline mandrel operator **7611**
pipeline operations supervisor **9212**
pipeline patrolman/woman **7442**
pipeline rehabilitation worker **7442**
pipeline service truck driver **7443**
pipeline surveyor **2154**
pipeline transport engineer **2134**
pipeline valve repairer **7445**
pipeline welder **7265**
pipeline welder helper **7611**
pipeline worker – construction **7611**
pipeline-liner installer **7611**
pipelines construction foreman/woman **7217**
pipelines operations manager **0912**
pipe-threading machine operator **9511**
pipeworker – underground mining **8411**
pipeworker helper – underground mining **8614**
piping draftsperson **2253**
piping engineer **2132**
piping-sewing machine operator **9451**
pisciculture bacteriological technologist **2221**
pit boss gaming **6443**
pit boss, gambling casino **6443**
pit bottom worker **7611**
pit moulder – foundry **9412**
pit scaler – underground mining **8614**
pit-scaler helper **8614**
pizza cook **6242**
pizza delivery driver **7414**
placement agency manager **0123**
placement office manager **0123**
placement officer – human resources **1223**
placer geologist **2113**
placing judge – racetrack **5253**
plain-clothes officer **6261**
plane table operator – surveying **2254**
planer – sawmill **9431**
planer – woodworking **9513**
planer feeder – woodworking **9513**
planer grader – wood processing **9436**
planer mill grader – wood processing **9436**
planer mill machine operator **9431**
planer operator – metal machining **9511**
planer operator – sawmill **9431**
planer operator – stone products **9414**
planer operator – woodworking **9513**
planer set-up operator – metal machining **9511**
planer tender – woodworking **9513**
planer, lacrosse sticks – woodworking **9513**
planer, shuttles – woodworking **9513**
planer, stones **9414**
planerman/woman – sawmill **9431**
planers, turners, shapers and related wood-machining workers foreman/woman – furniture and fixtures manufacturing **9224**
planetarium interpreter **5212**
planetarium technician **5212**
planner **2153**
planner, community recreation **2153**
planner, conventions and special events **1226**
planner, health care **4165**
planner, special events **1226**
planner, systems security **2171**
planner, urban and regional **2153**
planning analyst – land use **2153**
planning and organizational development manager **0114**
planning consultant, health care **4165**
planning co-ordinator, district health council program **4165**
planning engineer, electrical energy transmission **2133**
planning engineer, electrical systems **2133**
planning officer **1221**
planning officer, child health care programs **4165**
planning officer, child-care programs **4164**
planning officer, health care **4165**
planning technician **2233**
planning vice-president – financial, communications and other business services **0013**
planning vice-president – goods production, utilities, transportation and construction **0016**
planning vice-president – health, education, social and community services and membership organizations **0014**
planning vice-president – trade, broadcasting and other services **0015**
plant accountant **1111**
plant anatomist **2121**
plant assistant manager **0911**
plant breeder **2121**
plant breeding technician **2221**
plant carpenter **7271**
plant cleaner **6663**
plant controller **1111**
plant dispatcher **1475**

plant doctor **2225**
plant doctor helper **8612**
plant ecologist **2121**
plant electrician **7242**
plant engineer **2141**
plant equipment mechanic **7311**
plant foreman/woman, chemical processing **9212**
plant gatekeeper **6651**
plant grower – nursery **8254**
plant guard **6651**
plant labourer – fish processing **9618**
plant layout technician **2233**
plant machinery maintenance mechanic **7311**
plant maintenance electrician **7242**
plant maintenance engineer, stationary **7351**
plant maintenance manager **0721**
plant maintenance mechanic **7311**
plant maintenance painter **7294**
plant maintenance stationary engineer **7351**
plant maintenance superintendent **0721**
plant maintenance worker **6663**
plant manager **0911**
plant manager – postal and courier services **0132**
plant manager, manufacturing **0911**
plant manager, motor vehicle assembly **0911**
plant manager, packaging manufacturing **0911**
plant manager, pickling **0911**
plant manager, plastic products manufacturing **0911**
plant manager, printing **0911**
plant manager, rubber products manufacturing **0911**
plant manager, sewage treatment **0912**
plant manager, textile spinning **0911**
plant nematologist **2121**
plant operations manager – postal service **0132**
plant pathologist **2121**
plant pathology technician **2221**
plant pathology technologist **2221**
plant physiologist **2121**
plant population biologist **2121**
plant primary products inspector **2222**
plant propagator – greenhouse or nursery **8432**
plant protection inspector **2222**
plant scientist **2121**
plant superintendent – postal and courier services **0132**
plant superintendent, manufacturing **0911**
plant superintendent, water treatment **9212**
plant supervisor, water treatment **9212**
plant taxonomist **2121**
plant tinsmith **7261**
plant tour guide **6441**
plant worker, fish **9463**
plant-care worker **8612**
planter, bulbs **8612**
planting and cultivation contractor **8252**
planting crew foreman/woman **8211**
plantscape maintenance contractor **8255**
plantscape manager **8255**
plantscape technician **2225**
plasma physicist **2111**
plaster die maker **9414**
plaster mould maker – aircraft **7383**
plaster moulder – dentures **3223**
plaster pattern maker **7383**
plaster pattern maker – aircraft **7383**
plaster room aide **3414**
plaster room attendant **3414**
plasterboard cutter – mineral products processing **9611**
plasterboard inspector – mineral products processing **9415**
plasterboard machine feeder – mineral products manufacturing **9611**
plasterboard machine operator **9414**
plasterboard maker, gypsum **9414**
plasterboard-mixing machine tender **9414**
plasterer **7284**
plasterer apprentice **7284**
plasterer foreman/woman **7219**
plasterer helper **7611**
plasterer, finish **7284**
plasterer, fireproofing **7284**
plasterer, moulding **7284**
plasterer, stucco **7284**
plasterer-contractor **7219**
plasterer-decorator **7284**
plastering and drywall application contractor **7219**
plastering and drywalling contractor **7219**
plastering contractor **7219**
plastering supervisor **7219**
plastic and composite worker **9495**
plastic and painted panels inspector – motor vehicle manufacturing **9482**
plastic ankle piece moulder **9495**
plastic arts artist **5136**
plastic bag machine operator **9422**
plastic bag maker operator **9422**
plastic bottle trimmer **9495**
plastic box maker **9495**
plastic case assembler **9495**
plastic casket maker **9495**

plastic centrifugal caster **9422**
plastic coagulation operator **9422**
plastic coagulator **9422**
plastic coating fabricator **9495**
plastic compounder **9422**
plastic container flexographic-offset press operator **9471**
plastic cutter **9495**
plastic extruder operator **9422**
plastic film roll inspector **9422**
plastic footwear moulder operator **9422**
plastic insulation applicator **7293**
plastic laminator – wood furniture manufacturing **9513**
plastic mannequin moulder – plastic manufacturing **9422**
plastic material reeler and cutter **9495**
plastic mixer operator **9422**
plastic mould setter **9422**
plastic moulder, compression **9422**
plastic moulder, injection **9422**
plastic packing fabricator **9495**
plastic panelling assembler, marine craft **9495**
plastic parts assembler **9495**
plastic pipe production worker **9422**
plastic piping fabricator **9495**
plastic printer **9471**
plastic printer helper **9619**
plastic product sales representative – wholesale **6411**
plastic products assembler **9495**
plastic products assembly repairer **9495**
plastic products buffer **9495**
plastic products fabricator **9495**
plastic products finisher **9495**
plastic products former **9495**
plastic products inspection supervisor **9214**
plastic products inspector **9495**
plastic products inspector and tester **9495**
plastic products inspectors supervisor **9214**
plastic products laminator **9495**
plastic products manufacturing inspector **9495**
plastic products manufacturing labourer **9615**
plastic products manufacturing supervisor **9214**
plastic products trimmer **9495**
plastic products vacuum-forming machine tender **9495**
plastic products-manufacturing plant manager **0911**
plastic reproduction layup worker **9495**
plastic sheet finisher **9495**
plastic sheet offset press operator **7381**
plastic sign trimmer and assembler **9495**
plastic surgeon **3111**
plastic surgery specialist **3111**
plastic tank assembler **9495**
plastic template builder **9495**
plastic toy assembler **9495**
plastic windshield processor **9422**
plasticator operator **9422**
plastic-extrusion operator **9422**
plastic-fibre-extruding machine tender **9422**
plastic-film extrusion machine operator **9422**
plastic-packing machine tender **9619**
plastic-pipe production machine operator **9422**
plastic-pipe-extruder operator **9422**
plastics and plastic products compounder **9422**
plastics and resins chemist **2112**
plastics and synthetic resins technician **2211**
plastics assembler **9495**
plastics cementer **9495**
plastics cutter **9495**
plastics engineer **2134**
plastics inspector **9495**
plastics laminator – plastic manufacturing **9495**
plastics machine operator **9422**
plastics manufacturing technician **2233**
plastics masker **9619**
plastics moulder **9422**
plastics moulding technician **2233**
plastics pelletizer **9421**
plastics press operator **9422**
plastics processing compounder **9422**
plastics shop foreman/woman **9214**
plastics strainer operator **9422**
plastics technician **2233**
plastics trimmer **9495**
plastics-blending machine tender **9422**
plastics-moulding machine operator **9422**
plastics-moulding machine setter **9422**
plastic-spreading machine operator **9422**
plastics-processing equipment mechanic **7311**
plastics-processing machine setter **9422**
plastics-processing shop supervisor **9214**
plate burner – metal fabrication **9514**
plate changer – plastic manufacturing **9495**
plate filing clerk **1413**
plate finisher – printing **9472**
plate fitter helper – construction **7611**
plate former, lead acid storage battery – electrical equipment manufacturing **9487**
plate glass installer **7292**
plate grainer – printing **9472**

plate grinder – metal products manufacturing **9612**
plate processor – printing **9472**
plate processor operator – printing **9472**
plate roller – primary metal processing **9411**
plate rolling mill operator – primary metal processing **9411**
plate shaper, structural steel **7263**
plate shear operator – metal fabrication **9514**
plate shop foreman/woman **7214**
plate worker helper – metal products manufacturing **9612**
plate-graining machine tender **9472**
platemaker – printing **9472**
platemakers supervisor **7218**
platemaking etcher **9472**
platemaking supervisor – printing **7218**
platen press operator – paper converting **9435**
platen press operator – printing **7381**
platen press operator, die cutting **9473**
platen press operator, foil stamping **9473**
platen press tender **7381**
plate-parting machine operator – electrical equipment manufacturing **9487**
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plater – shipbuilding **7263**
plater helper – metal fabrication **9612**
plater, bridges and girders **7263**
plater, structural metal and platework **7263**
plater, vacuum evaporation process – electronic equipment manufacturing **9483**
plateroom supervisor – printing **7218**
plater-welder **7263**
platework fabricator **7263**
platework fabricator and fitter **7263**
platework fabricators foreman/woman **7214**
platework fitter **7263**
platform interpreter, sign language **5125**
platform superintendent – oil and gas drilling **8222**
plating room helper **9612**
plating tank operator **9497**
platoon chief, fire department **6262**
play therapist **4153**
playback operator **5225**
playground leader **5254**
playground maintenance man/woman **7621**
playground worker **5254**
playwright **5121**
pleasure boat dealer **0621**
pleat finisher – laundry and dry cleaning **6682**
pleat presser – laundry and dry cleaning **6682**
pleater – textile manufacturing **9443**
pleater, hand – garment manufacturing **9498**
pleating machine tender – garment manufacturing **9517**
Plexiglas assembler **9495**
Plexiglas former **9495**
plodder operator **9421**
plug maker – tobacco processing **9464**
plug moulder, machine – tobacco processing **9464**
plug-cutting machine tender – tobacco processing **9464**
plugger – primary metal processing **9611**
plumber **7251**
plumber – pipefitting **7251**
plumber apprentice **7251**
plumber foreman/woman **7213**
plumber helper **7611**
plumber, (non-construction) maintenance and repair **7251**
plumber, maintenance and repair **7251**
plumber, residential construction **7251**
plumber-gas fitter – military **7251**
plumbers supervisor **7213**
plumbing and heating contractor **7213**
plumbing and heating services sales representative **6221**
plumbing contractor **7213**
plumbing estimator – construction **2234**
plumbing inspector **2264**
plumbing installer **7251**
plumbing mechanic **7251**
ply assembler – rubber **9423**
ply splicer – rubber products manufacturing **9423**
plywood and veneer matcher – wood processing **9436**
plywood and veneer patcher and repairer **9434**
plywood and veneer plant labourer **9614**
plywood boat veneer layer **9491**
plywood bundler **9434**
plywood drier feeder **9614**
plywood grader – wood processing **9436**
plywood inspector – wood processing **9436**
plywood making foreman/woman **9215**
plywood panel assembler **9434**
plywood panel groover operator – wood processing **9434**
plywood patcher **9434**
plywood patcher, machine **9434**
plywood press operator **9434**

plywood-sizing saw tender – wood processing **9434**
pneumatic drill operator – construction **7611**
pneumatic hammer operator – construction **7611**
pneumatic tool repairer **7445**
pneumatic tube repairer **7445**
pneumatic unit tester and repairer **7445**
pneumologist **3111**
pochoir silk-screen printing machine operator **9471**
pocket marker – garment manufacturing **9619**
pocket setter **9451**
pocketed spring machine tender **9516**
pocket-folding machine feeder-loader – printing **9619**
podiatric clinic manager **0311**
podiatrist **3123**
poet **5121**
point of sale system manager **1122**
pointer operator – primary metal processing **9411**
poker croupier **6443**
poker-work artisan **5244**
pole cutter **8421**
pole distributor operator **7452**
pole framer – wood products **9513**
pole inspector – wood processing **9436**
pole maker, concrete – concrete products manufacturing **9414**
pole shoe assembler – industrial electrical equipment **9485**
pole stacker operator **7452**
poler – textile manufacturing **9443**
pole-up man/woman – rubber products manufacturing **9615**
police cadet **6261**
police captain **0641**
police chief **0641**
police chief – regional operations **0641**
police college teacher **4131**
police constable **6261**
police constable, railway **6261**
police corporal **6261**
police department dispatcher **1475**
police diver **6261**
police force inspector **0641**
police inspector **0641**
police instructor **4131**
police investigator **6261**
police lieutenant **0641**
police officer **6261**
police photographer **5221**
police salvage diver **6261**
police sergeant **6261**
police staff inspector **0641**
police station clerk **1441**
police superintendent **0641**
police surgeon **3111**
policeman/woman **6261**
policy analyst, child welfare **4164**
policy analyst, education **4166**
policy analyst, housing **4164**
policy analyst, immigration **4164**
policy analyst, natural and applied sciences **4161**
policy analyst, recreation, sports or fitness **4167**
policy analyst, status of women's directorate **4164**
policy and planning director – education programs **0413**
policy change clerk – insurance **1434**
policy clerk – insurance **1434**
policy consultant, correction services **4164**
policy consultant, education **4166**
policy consultant, employment equity **4164**
policy consultant, labour mobility **4164**
policy consultant, women's employment **4164**
policy development officer, health **4165**
policy development officer, nursing homes **4165**
policy information clerk – insurance **1434**
policy officer, education **4166**
policy officer, labour **4164**
policy officer, visible minorities **4164**
polisher – concrete, clay and stone products **9414**
polisher – textile fibre **9441**
polisher and buffer, sheet metal **9612**
polisher, cement **9414**
polisher, clay products **9414**
polisher, eyeglass frames **9517**
polisher, furniture – furniture finishing **9494**
polisher, granite products **9414**
polisher, jewellery **9498**
polisher, pottery and porcelain **9414**
polisher, precision optical lenses – non-prescription **9517**
polisher, rubber products **9423**
polisher, shoe manufacturing **9619**
polisher, slide fasteners – metal products manufacturing **9612**
polisher, spectacle frames **9517**
polisher, stone products **9414**
polisher, wooden furniture – furniture finishing **9494**
polishing machine operator – metal products **9516**
polishing machine operator – plastic manufacturing **9495**

polishing pad mounter **3414**
political analyst – radio or television **5123**
political caricaturist **5241**
political cartoonist **5241**
political columnist **5123**
political geographer **4169**
political historian **4169**
political organization general manager **0014**
political organization manager **0314**
political organizer **4164**
political party president **0014**
political reporter **5123**
political science professor – university **4121**
political scientist **4169**
politicist **4169**
poll clerk **1454**
pollster **4164**
pollution control engineer **2131**
pollution control inspector **2263**
pollution control technician **2231**
polygraph examiner **6465**
polygraph operator **6465**
polygraphist **6465**
polymer chemist **2112**
polymer engineer **2134**
polymerization kettle operator **9232**
polymerization unit operator **9232**
polymers tester **2211**
polysomnographic technologist **3214**
pond foreman/woman **8211**
pondman/woman **8616**
pony ride operator **6671**
pool activities co-ordinator **4167**
pool and patio contractor **7219**
pool co-ordinator – recreation **4167**
pool equipment installer **7441**
pool installer, vinyl **7441**
pool lifeguard **5254**
pool parlour attendant **6671**
pool parlour supervisor **6216**
pool service routeman/woman **7441**
pool servicer **7441**
pop singer **5133**
popcorn candy maker **9461**
popcorn maker – food and beverage processing **9617**
popcorn vendor **6623**
population geneticist **2121**
porcelain and earthenware presser, hand – clay products **9414**
porcelain glazer – mineral products manufacturing **9611**
porcelain products cleaner **9619**
pork cutter – retail or wholesale **6251**
pork grader **9465**
pork production technician **8253**
pork production technician apprentice **8253**
port captain – water transport **0713**
port director **0721**
port redcap **6672**
port surveyor **2154**
portable appliance repairman/woman **7332**
portable diamond drill and saw operator **9414**
portable electric household appliance repairer **7332**
portable electrical appliance assembler **9484**
portable machine sander tender – woodworking **9513**
portable sawer – woodworking **9513**
portable spot welder **7265**
porter **6672**
porter, baggage **6672**
porter, sleeping car **6672**
portfolio manager **1112**
portrait painter **5136**
portrait photographer **5221**
position classifier **1121**
positron-emission tomography (PET) technologist **3215**
post cutter **8421**
post hole driller **7611**
post office clerk **1461**
post office manager **0132**
postal area manager **0132**
postal carrier **1462**
postal clerk **1461**
postal clerk – military **1461**
postal clerks supervisor **1214**
postal counter clerk **1461**
postal inspection officer **6465**
postal officer – military **0132**
postal service deliverer **1462**
postal service inspector **6465**
postal services commercial sales representative **6411**
postal services wicket clerk **1461**
postal station employees supervisor **1214**
postal station superintendent **0132**
postal station supervisor **1214**
postal wicket clerk **1461**
postal worker **1462**
postal workers supervisor **1214**
postal zone facilities manager **0132**
postal zone manager **0132**

postdoctoral fellow **4122**
poster artist **5241**
poster layout designer **5223**
poster painter **5223**
postman/woman **1462**
postmaster/mistress **1214**
post-mortem attendant **3414**
postproduction technician **5225**
postsecondary research assistant **4122**
postsecondary teaching assistant **4122**
postulant **4217**
pot fisherman/woman **8262**
pot liner – metal processing **9411**
pot room foreman/woman – primary metal and mineral products processing **9211**
pot room foreman/woman – primary metal processing **9211**
pot tender – primary metal processing **9411**
pot washer **6641**
potash miner **8231**
potato chip machine operator **9461**
potato chip sorter **9617**
potato chip sorter – food and beverage processing **9617**
potato farmer **8251**
potato grower **8251**
potato producer **8251**
potato-peeling machine tender **9617**
potlining mixer helper – primary metal processing **9611**
potter **5244**
pottery and porcelain chipper **9414**
pottery and porcelain former – clay products **9414**
pottery and porcelain grinder **9414**
pottery and porcelain polisher **9414**
pottery and porcelain presser **9414**
pottery and porcelain sagger maker **9414**
pottery and porcelain sander **9414**
pottery and porcelain turner – clay products **9414**
pottery and porcelain ware caster **9414**
pottery and porcelain ware inspector **9415**
pottery designer **5243**
pottery dryer – clay products **9414**
pottery model maker **9414**
pottery mould maker **9414**
pottery trimmer **9414**
pouch line operator – food processing **9461**
poultry boner **9462**
poultry breeder **8251**
poultry breeder – egg production **8251**
poultry butcher – meat packing plant **9462**
poultry cooler worker – food and beverage processing **9617**
poultry dresser **9462**
poultry eviscerating foreman/woman **9213**
poultry eviscerator **9462**
poultry farm foreman/woman **8253**
poultry farm labourer **8431**
poultry farm manager **8251**
poultry farm worker **8431**
poultry farm workers foreman/woman **8253**
poultry farmer – egg production **8251**
poultry grader **9465**
poultry graders foreman/woman **9213**
poultry graders supervisor **9213**
poultry hanger **9462**
poultry inspector **2222**
poultry operation supervisor **8253**
poultry packager **9617**
poultry pinner **9462**
poultry plucker **9462**
poultry plucker tender **9462**
poultry preparer **9462**
poultry preparers foreman/woman **9213**
poultry producer **8251**
poultry scientist **2121**
poultry slaughterer – food and beverage processing **9462**
poultry technician **2221**
poultry technologist **2221**
poultry veterinarian **3114**
poultry worker – meat packing plant **9462**
poultry yard cleaner **8431**
poultry-hatching services contractor **8252**
pouncer – hat manufacturing **9517**
pound animal attendant **6483**
pound attendant **6483**
pound net fisherman/woman **8262**
pound officer **6463**
pourer – metal processing **9411**
pourer helper, metal – primary metal processing **9611**
poverty researcher **4164**
powder blender **9421**
powder carrier – underground mining **8614**
powder keeper **1472**
powdered metal mixer – primary metal processing **9611**
powdered metal salvager – primary metal processing **9611**
powdered milk dryer operator **9461**
powderman/woman – underground mining **8231**
power brake operator – metal fabrication **9514**

power cable ferry operator **7435**
power cable system installer helper **7612**
power control room operator – electrical power systems **7352**
power crane operator **7371**
power curber tender **7611**
power dispatcher **7352**
power dispatcher – electrical power systems **7352**
power dispatcher – generating station **7352**
power electrician **7243**
power engineer **7351**
power engineer apprentice **7351**
power engineer foreman/woman **9212**
power engineer, first class **7351**
power engineer, fourth class **7351**
power engineer, second class **7351**
power engineer, third class **7351**
power equipment design technician **2232**
power generation engineer **2132**
power grader operator **7421**
power hammer helper – metal fabrication **9612**
power hammer operator – metal forging **9512**
power lawn mower assembler **9486**
power line air patrol pilot **2271**
power line and cable workers foreman/woman **7212**
power line lineman/woman, electrical **7244**
power line maintainer – electric power systems **7244**
power line maintenance workers front line supervisor **7212**
power line patroller **7244**
power line repair foreman/woman **7212**
power line repairer – electric power systems **7244**
power line repairers foreman/woman **7212**
power line service foreman/woman **7212**
power line technician foreman/woman **7212**
power lineman/woman **7244**
power lineman/woman – electricity production and transmission **7244**
power linemen/women and cable installers supervisor **7212**
power loom weaver **9442**
power plant assembler – aircraft assembly **9481**
power plant chief substation operator **9212**
power plant engineer **2132**
power plant foreman/woman **9212**
power plant installation mechanic – aircraft assembly **9481**
power plant mechanic – aircraft assembly **9481**
power plant mechanic, aircraft **7315**
power plant operator **7352**
power plant operator – electrical power systems **7352**
power plant stationary engineer **7351**
power press operator – metal fabrication **9514**
power press operator – metal products manufacturing **9514**
power press set-up operator – metal fabrication **9514**
power reactor operator – electrical power systems **7352**
power saw operator – woodworking **9513**
power screwdriver operator **9517**
power shear operator – metal fabrication **9514**
power shear tender – metal fabrication **9514**
power shovel mechanic **7312**
power shovel operator **7421**
power shovel operator helper **7611**
power snowblower assembler **9486**
power station electrician **7243**
power station electrician – electrical power system **7243**
power station operator – electrical power systems **7352**
power station operators foreman/woman **9212**
power station shift supervisor **9212**
power station supervisor **9212**
power substation operator **7352**
power sweeper operator – public works **7422**
power switchboard operator – chemical **9232**
power switchboard operator – electrical power systems **7352**
power switchboard operator apprentice – electrical power systems **7352**
power system electrician **7243**
power system electricians supervisor **7212**
power system operator **7352**
power system operator – offshore drilling **7352**
power systems electricians supervisor **7212**
power tool repairer **7332**
power transformer assembler **9485**
power transformer core builder **9485**
power transformer repairer **7333**
power transformer repairman/woman **7333**
power transmission assembly foreman/woman **9226**
power truck driver – material handling **7452**
powered-machine or towed-machine repairer helper – construction **7612**
powerhouse electrician – electrical power system **7243**
powerhouse electrician helper **7612**
powerhouse helper **9613**

powerhouse machinery mechanic **7311**
powerhouse mechanical repairer helper **7612**
powerhouse oiler **7612**
powerhouse operator **7351**
powerline technician **7244**
power-tong operator **8412**
practical and applied arts teacher **4141**
practitioner, Chinese medicine **3232**
practitioner, contact lenses **3231**
practitioner, general **3112**
practitioner, herb **3232**
practitioner, herbal **3232**
practitioner, herbology **3232**
practitioner, holistic **3232**
practitioner, homeopathic **3232**
prawn fisherman/woman **8262**
preacher **4154**
preassembler, clutches **9486**
preboarding security guard **6651**
precast concrete caulker **7611**
precast concrete erector **7264**
precast concrete finisher **7282**
precast concrete moulder **9414**
precast concrete slab maker **9414**
precast concrete working foreman/woman **9211**
precast terrazzo maker **9414**
precious metal assayer **2212**
precious metal recoverer **9411**
precious metals theft inspector – police **0641**
precious stone setter **7344**
precipitator helper – primary metal processing **9611**
precipitator operator – chemical processing **9421**
precipitator tender – primary metal processing **9411**
precision grinder operator – metal machining **9511**
precision grinder set-up operator **9511**
precision grinder set-up operator – metal machining **9511**
precision honing machine operator – metal machining **9511**
precision instrument assembler – electronic equipment manufacturing **9483**
precision instrument assembly inspector **9498**
precision instrument machine shop foreman/woman **7211**
precision instrument mechanic **2243**
precision instrument technician – avionics **2244**
precision lapper – metal machining **9511**
precision lathe operator – metal machining **9511**
precision lens edger – non-prescription **9517**
precision lens grinder – non-prescription **9517**
precision lens polisher – non-prescription **9517**
precision machinist **7231**
precision sheet metal fabricator **7261**
precision sheet metal mechanic **7261**
precision sheet metal worker **7261**
precision survey engineer **2131**
precision tool maker **7232**
precision welder **7265**
precommercial tree thinner **8422**
precooked sausage maker **9461**
prefab housing assembler **9493**
prefab housing assembler, wood **9493**
prefabricated house carpenter **7271**
prefabricated housing assembler **9493**
prefabricated housing production worker, wood **9493**
prefabricated joinery assemblers foreman/woman – wood products manufacturing **9227**
prefabricated joinery assembly supervisor **9227**
preflight mechanic **7315**
preflight mechanic, mechanical systems **7315**
pre-flight operator – printing **1423**
preform machine tender – plastic manufacturing **9422**
preheater tender – pipelines **7611**
preliminary press planner **1221**
premier **0011**
premium rater – insurance **1434**
prep line attendant – bulk galvanizing **9497**
preparation department foreman/woman – textiles **9216**
preparation upholsterer **7341**
preparator – museums and art galleries **5212**
preparatory supervisor – printing **7218**
prepared hide and pelt dresser **9453**
preparer, harnesses – textiles **9442**
preparer, new passenger cars – motor vehicle manufacturing **9482**
preparer, parachutes **9619**
preparer, seafood – fish processing **9463**
prepress planner – publishing **1221**
prepress supervisor – printing **7218**
prepress technician **9472**
prepress workers supervisor **7218**
preprint-coating machine tender **9472**
preproduction operator **1423**
preretirement counsellor **4153**
presbyter **4154**
pre-school helper **4214**
pre-school supervisor **4214**
pre-school teacher **4214**

presentation co-ordinator – broadcasting **5226**
preshrinking process tester – textiles **9444**
president – financial, communications and other business services **0013**
president – goods production, utilities, transportation and construction **0016**
president – government services **0012**
president – health, education, social and community services and membership organizations **0014**
president – trade, broadcasting and other services **0015**
president and chief executive officer – financial, communications and other business services **0013**
president and director – trade, broadcasting and other services **0015**
president and general manager – health, education, social and community services and membership organizations **0014**
president and general manager – trade, broadcasting and other services **0015**
president, academic association **0014**
president, advertising agency **0013**
president, business association **0014**
president, computing service company **0013**
president, cultural association **0014**
president, department store **0015**
president, ethnic association **0014**
president, health care association **0014**
president, labour organization **0014**
president, music guild **0014**
president, political party **0014**
president, residential construction company **0016**
president, sports association **0014**
presiding steward – racetrack **5253**
press agent **5124**
press agent, public relations **5124**
press assistant, reel replacer **9619**
press brake operator – metal products manufacturing **9514**
press clipper **1452**
press helper – printing **9619**
press line operator – rubber products manufacturing **9423**
press operator – electrical equipment manufacturing **9487**
press operator – food and beverage processing **9461**
press operator – plastic manufacturing **9422**
press operator – printing **7381**
press operator – rubber products manufacturing **9423**
press operator – tobacco processing **9464**
press operator, anodes **9411**
press operator, ceramic tiles – concrete products **9414**
press operator, clay **9414**
press operator, die-cutting or die-numbering – printing **9473**
press operator, embossing – printing **9473**
press operator, hardboard – wood processing **9434**
press operator, ink evaluation – printing **7381**
press operator, plastics **9422**
press operator, skates **9517**
press operator, transfer **9471**
press operators supervisor, printing **7218**
press paper feeder – printing **9619**
press reader **1452**
press reporter **5123**
press secretary **5124**
press secretary, public relations **5124**
press supervisor – printing **7218**
press tender – electrical equipment manufacturing **9487**
press tender – pierce and shave **9514**
press tender, dehydrating – chemical processing **9421**
press tender, felt – textiles **9442**
press tender, insulation board **9434**
press tender, pellets – explosives manufacturing **9517**
presser – food and beverage processing **9461**
presser – laundry and dry cleaning **6682**
presser – rubber products manufacturing **9423**
presser and threader – textile manufacturing **9443**
presser, artificial flowers **5244**
presser, bricks – clay products **9414**
presser, pencil blanks **9619**
presser, pottery and porcelain **9414**
presser, rubber flaps **9423**
presser, upholstery – plastic manufacturing **9495**
presser-threader – textile manufacturing **9443**
pressing machine feeder – garment manufacturing **9619**
pressing machine tender – laundry and dry cleaning **6682**
pressman/woman – printing **7381**
pressman/woman, flowerpots – clay products **9414**
pressman/woman, ink evaluation – printing **7381**

pressman/woman, moulding – rubber products manufacturing **9423**
pressman/woman, pulp – pulp and paper **9433**
pressroom floor attendant – printing **9619**
pressroom foreman/woman – printing **7218**
pressroom supervisor – printing **7218**
pressroom worker, tires and inner tubes – rubber products manufacturing **9615**
pressure compartment sealer and tester – aircraft assembly **9481**
pressure control calibrator **7445**
pressure cooker operator – food and beverage processing **9461**
pressure switch inspector **9498**
pressure switch tester **9498**
pressure tank tester **2261**
pressure vessel boilermaker **7262**
pressure vessel fabricator **7262**
pressure vessel tester **2261**
pressure vessel welder **7265**
pressure-sensitive coater operator – plastic manufacturing **9422**
pressurized container filler **9461**
prestidigitator **5232**
pre-stressed concrete inspector **2264**
pretzel baker – food and beverage processing **9461**
prevention officer – occupational health and safety **4165**
preventive dental assistant **3411**
preventive maintenance mechanic technician **7311**
preventive medicine physician **3111**
preventive medicine specialist **3111**
preventive medicine technician – military **2263**
preventive medicine veterinarian **3114**
price checker – grocery store **6622**
price clerk – retail **6622**
price economist **4162**
price information clerk **1453**
price information clerks supervisor **1211**
price management analyst **1122**
price marker – supermarket **6622**
price marker supervisor – retail **6211**
priest **4154**
primary care nurse **3152**
primary care paramedic **3234**
primary care physician **3112**
primary grain elevator agent **6234**
primary grain elevator manager **6234**
primary grain elevator operator **6234**
primary metal and mineral products processing foreman/woman **9211**
primary metal and mineral products processing supervisor **9211**
primary metal processing labourer **9611**
primary nurse **3152**
primary products inspector, animals **2222**
primary school teacher **4142**
prime minister **0011**
primer sprayer **9496**
primer, tobacco **8431**
primer-inserting machine tender **9517**
principal **0313**
principal clerk of legislative committees **0414**
Principal Clerk of the House of Commons **0414**
Principal Clerk of the Legislative Assembly **0414**
principal estimator – construction **2234**
principal, business school **0312**
print applier – production **9496**
print colour mixer **9421**
print developer **9474**
print finisher – photographic processing **9474**
print inspector – photographic processing **9474**
print retoucher – photographic processing **9474**
print roller repairer **9472**
print tender – photographic processing **9474**
print transferrer – printing **9472**
printed circuit board (PCB) assembler **9483**
printed circuit board (PCB) assembly inspector **9483**
printed circuit board (PCB) assembly machine operator **9483**
printed circuit board (PCB) assembly machine operator – electronic equipment manufacturing **9483**
printed circuit board (PCB) etcher **9483**
printed circuit board (PCB) fabrication foreman/woman – electronic equipment manufacturing **9222**
printed circuit board (PCB) fabrication inspector **9483**
printed circuit board (PCB) fabrication machine operator **9483**
printed circuit board (PCB) fabrication supervisor – electronic equipment manufacturing **9222**
printed circuit board (PCB) in-circuit machine - and repairing-machine operator **9483**
printed circuit board (PCB) in-circuit test machine and repair operator **9483**
printed circuit board (PCB) inspector **9483**
printed circuit board (PCB) inspector and tester – electronic equipment manufacturing **9483**

printer **7381**
printer helper, wallpapers **9619**
printer operator – printing **9471**
printer repairers foreman/woman **7216**
printer, boxes, cases and linings **9471**
printer, motion picture film **9474**
printer, photographic films **9474**
printer, photographs **9474**
printers foreman/woman **7218**
printers supervisor **7218**
printer-slotter operator **9471**
printer-slotter tender **9471**
printing and finishing machine operator **9471**
printing cylinder engraver **9472**
printing equipment assembly foreman/woman **9226**
printing machine mechanics foreman/woman **7216**
printing machine operator – printing **9471**
printing machine operator – textile manufacturing **9443**
printing machine repair foreman/woman **7216**
printing machine repairers foreman/woman **7216**
printing machinery mechanic **7311**
printing machinery sales representative **6221**
printing management technician **6221**
printing manager **0911**
printing operator – textile manufacturing **9443**
printing plant manager **0911**
printing plate engraver **9472**
printing plate moulder **9472**
printing plate presensitizer tender **9472**
printing plates order clerk **1474**
printing press and machine mechanics foreman/woman **7216**
printing press assistant operator **7381**
printing press feeder **9619**
printing press machinist **7231**
printing press operator **7381**
printing press operators supervisor **7218**
printing roller moulder – plastic manufacturing **9422**
printing services sales representative **6411**
printing shop foreman/woman **7218**
printing supervisor **7218**
printing supplies salesperson **6221**
printing technologist **7381**
printing technology teacher – college or vocational institute **4131**
printing-roller finisher **9511**
printing-roller grinder **9511**
printing-roller polisher **9511**
printmaker – visual arts **5136**
printmaking teacher **5136**
priority post carrier **1462**
prism maker **9517**
prism maker operator **9517**
prison guard **6462**
prison officer **6462**
prison warden **0314**
privacy officer **1221**
private bailiff **6461**
private branch exchange (PBX) and private automatic branch exchange (PABX) inspector – telecommunications **7246**
private branch exchange (PBX) and private automatic branch exchange (PABX) installer – telecommunications **7246**
private branch exchange (PBX) and private automatic branch exchange (PABX) installer and repairer – telecommunications **7246**
private branch exchange (PBX) and private automatic branch exchange (PABX) repairer – telecommunications **7246**
private branch exchange (PBX) inspector – telecommunications **7246**
private branch exchange (PBX) installer – telecommunications **7246**
private branch exchange (PBX) repairer – telecommunications **7246**
private care nurse **3152**
private chauffeur **7413**
private detective **6465**
private duty nurse **3152**
private investigation and security service manager **0123**
private investigator **6465**
private investigators supervisor **6465**
private lands forester **2122**
private police agents and investigators supervisor **6465**
private policemen/women and investigators supervisor **6465**
private primary college principal **0313**
private school headmaster **0313**
private school principal **0313**
private secretary **1241**
private security officer **6465**
private teacher – secondary school **4141**
private vocational school director **0312**
prize fighter **5251**
probate court judge **4111**
probation and parole officer **4155**
probation officer **4155**

process assistant – zinc pressure leach **9411**
process camera operator **9472**
process cheese cooker **9461**
process cheese formulator **9461**
process control checker – food and beverage processing **9465**
process control chemist **2112**
process control engineer, chemical **2134**
process control engineer, electrical **2133**
process control equipment mechanic **2243**
process control equipment repairer **2243**
process control operator – food and beverage processing **9461**
process engineer, petroleum refinery **2134**
process inspector – electronic equipment manufacturing **9483**
process instrumentation engineer **2133**
process operator – food and beverage processing **9461**
process operator – primary metal and mineral products processing **9231**
process operator – zinc pressure leach **9231**
process operator, liquid waste **9424**
process piping draftsperson **2253**
process room operator, dry battery – electrical equipment manufacturing **9487**
process server **6461**
process technician – chemical processing **9232**
process technician – electronic equipment manufacturing **9483**
process technician, water treatment plant **9424**
process tester – electronic equipment manufacturing **9483**
processed paper rewinder **9433**
processing and output compositor **1423**
processing and packaging equipment maintenance foreman/woman **7216**
processing and packaging equipment maintenance supervisor **7216**
processing equipment cleaner **9619**
processing laboratory operator **9232**
processing operator – chemical processing **9232**
processing plant mechanic **7311**
processing plant operator, liquid waste **9424**
processing plant worker, fish **9463**
process-inspector and tester – electrical equipment manufacturing **9484**
processor – printing **9472**
processor, films **9474**
processor, photographic film **9474**
processor, sterile products – chemical processing **9232**
proctologist **3111**
procurement clerk **1474**
procurement director **0113**
procurement manager **0113**
procurement officer **1225**
procurement operations director **0113**
produce buyer **6233**
produce clerk **6622**
produce clerk, supermarket **6622**
produce department supervisor **6211**
produce grader – food and beverage processing **9465**
produce inspector **2222**
produce manager – retail **0621**
produce sampler – food and beverage processing **9617**
produce shipper **1471**
producer, broadcasting **5131**
producer, motion picture **5131**
producer, poultry **8251**
producer, stage **5131**
producer-director **5131**
product designer **2252**
product inspector – furniture manufacturing **9492**
product lacquer-sprayer **9496**
product manager **0611**
product manager – marketing **1122**
product marker **9619**
product painter **9496**
product spray painter **9496**
product stainer **9496**
product surface preparer and prefinisher **9496**
product tester – food and beverage processing **9465**
product trimmer **9498**
production accountant **1111**
production agent **1473**
production and control operator, paint and mix **9496**
production and quality control technologist **2233**
production assembler – electrical equipment manufacturing **9484**
production assembler, electrical appliances **9484**
production assembler, electrical equipment **9484**
production assistant **5227**
production assistant – motion pictures and broadcasting **5227**
production borer – metal machining **9511**
production boring machine operator – metal machining **9511**
production broaching machine operator – metal machining **9511**

production broaching machine tender – metal machining **9511**
production brush painter **9496**
production chief **0911**
production clerk **1473**
production clerks supervisor **1215**
production coating machine operator **9496**
production control clerk **1473**
production control manager – postal service **0132**
production control technologist **2233**
production controller **1473**
production co-ordinator **1473**
production co-ordinator – motion pictures, broadcasting and performing arts **5226**
production co-ordinator – radiobroadcasting **5226**
production day labourer – tire industry **9615**
production designer – motion pictures, broadcasting and performing arts **5131**
production director – motion picture **5131**
production driller **8231**
production editor **5122**
production electroplater **9497**
production engineer **2141**
production engineer, oil and gas **2145**
production engineering manager **0211**
production equipment fitter **7316**
production equipment maintenance mechanic supervisor **7216**
production examiner **1233**
production expediter **1473**
production foreman/woman – electronics manufacturing **9222**
production foreman/woman – fabric, fur and leather products manufacturing **9225**
production foreman/woman – fur products manufacturing **9225**
production foreman/woman – mining and quarrying **8221**
production gear cutter **9511**
production general manager – goods production, utilities, transportation and construction **0016**
production grinder – metal machining **9511**
production grinder operator – metal machining **9511**
production head **0911**
production helper **9617**
production helper – food and beverage processing **9617**
production helper – metal coating **9612**
production helper – primary metal and mineral products processing **9611**
production induction brazier **7265**
production lapping machine operator **9511**
production lapping machine tender **9511**
production lathe operator – metal machining **9511**
production line battery repairer – electrical equipment manufacturing **9487**
production line foreman/woman – motor vehicle manufacturing **9221**
production line setter and servicer – electrical equipment manufacturing **9487**
production line solderer **7265**
production line spot welder **7265**
production line storage battery repairer – electrical equipment manufacturing **9487**
production line welder **7265**
production loader operator **8231**
production machine operator – electrical equipment manufacturing **9487**
production machine operator, plastic bags **9422**
production machine operator, plastic pipes **9422**
production machine set-up operator – electrical appliance and equipment manufacturing **9487**
production machine shop foreman/woman **7211**
production machine tool operator **9511**
production machinery maintenance foreman/woman **7216**
production machinery maintenance mechanic **7311**
production machinery maintenance mechanic supervisor **7216**
production machinery maintenance mechanics foreman/woman **7216**
production machinery mechanic **7311**
production manager – coal mining **0811**
production manager – manufacturing **0911**
production manager – printing **0911**
production manager – telecommunications **0131**
production manager, automobile interior fittings **0911**
production manager, oil and gas fields **0811**
production manager, railway cars **0911**
production manager, railway rolling stock **0911**
production material estimator **1473**
production mechanic **7311**
production metal grinder operator **9511**
production milling machine operator – metal machining **9511**
production miner **8231**
production multiple-spindle screw machine set-up operator **9511**
production officer **1473**
production operations manager **0911**
production operator – chemical processing **9232**

production operator – electronic equipment manufacturing **9483**
production operator – motor vehicle manufacturing **9482**
production operator – rubber products manufacturing **9423**
production operator, body – motor vehicle manufacturing **9482**
production operator, paint **9496**
production operator, trim and final – motor vehicle manufacturing **9482**
production painter **9496**
production painter helper **9619**
production painter, final colours **9496**
production painter-finisher **9496**
production planner **0911**
production planning clerks supervisor **1215**
production planning co-ordinator **0911**
production planning manager **0911**
production planning technician **2233**
production repairer, electronics **2241**
production repairer, foam cushions – plastic products manufacturing **9495**
production scheduler **1473**
production senior co-ordinator **0911**
production sound recordist **5225**
production spot welder **7265**
production superintendent **0911**
production supervisor – electronics manufacturing **9222**
production supervisor – food and beverage processing **9213**
production supervisor – logging **8211**
production supervisor – printing **7218**
production supervisor, dry cleaning **6214**
production supervisor, pharmaceuticals **9212**
production supervisor, specialty chemicals **9212**
production support technician – electronic manufacturing **2241**
production support technician, electronic **2241**
production switcher **5224**
production technician – motion pictures, broadcasting and performing arts **5226**
production technologist – sawmill **2233**
production tester – electronic equipment manufacturing **9483**
production tester, lead acid electrical battery **9487**
production testing operator – oil and gas well drilling **8232**
production tooling maintenance mechanic **7311**
production touch-up painter **9496**
production tubing operator – oil field services **8412**
production upholsterer **7341**
production weigher **9619**
production welder **7265**
production worker **9617**
production worker – furniture manufacturing **9492**
production worker, plastic pipes **9422**
production worker, wooden manufactured homes **9493**
production worker, wooden manufactured housing **9493**
production worker, wooden prefabricated housing **9493**
products administrator **1225**
professional agrologist (P.Ag.) **2123**
professional athlete **5251**
professional athletes team manager **0513**
professional boxer **5251**
professional development and employment district director – government services **0411**
professional development director – government services **0411**
professional dietitian (P.Dt.) **3132**
professional dietitian, registered **3132**
professional engineer, broadcasting **2133**
professional estimator – construction **2234**
professional football team manager **0513**
professional forester **2122**
professional golf instructor **5254**
professional hockey team manager **0513**
professional image consultant **6481**
professional instructor, golf **5254**
professional instructor, tennis **5254**
professional land surveyor **2154**
professional nutritionist **3132**
professional quantity surveyor **2234**
professional services manager – business services **0123**
professional sport team general manager **0513**
professional sport team manager **0513**
professional sports scout **5252**
professional sports team coach **5252**
professional sportsman/woman **5251**
professional team coach **5252**
professional tennis instructor **5254**
professional track-and-field team manager **0513**
professional track-and-field-team general manager **0513**
professional training instructor **4131**
professor emeritus – university **4121**

professor of computer science – university **4121**
professor of medicine – university **4121**
professor, university **4121**
profile mill operator, CNC (computer numerical control) **9511**
profile mill operator, CNC (computerized numerical control) **9511**
profile milling machine operator – metal machining **9511**
profile milling machine set-up operator **9511**
profile saw operator – jewellery **9517**
profile shaper operator – woodworking **9513**
profile trimmer – jewellery **9517**
profile-pocket sewing machine operator **9451**
profiling machine operator – metal machining **9511**
profiling machine set-up operator **9511**
program adviser, family violence prevention **4164**
program assistant, education **6472**
program consultant, community policing **4164**
program co-ordinator – broadcasting **5226**
program co-ordinator – education **4166**
program co-ordinator – environmental organization **4161**
program co-ordinator – postsecondary education **0312**
program co-ordinator, arts and crafts **4167**
program co-ordinator, leisure activities **4167**
program co-ordinator, recreation **4167**
program co-ordinator, recreational activities **4167**
program co-ordinator, solid waste **4161**
program co-ordinator, teen clubs **4167**
program delivery officer – business development **4163**
program development and educational planning director – public administration **0413**
program development specialist – college **4166**
program director – broadcasting **5131**
program general manager – broadcasting **0512**
program manager, solid waste **4161**
program officer – international development agency **4163**
program officer, education **4166**
program officer, energy **4161**
program officer, fisheries **4161**
program officer, health care association **4165**
program officer, health promotion **4165**
program officer, income maintenance **4164**
program officer, Native employment **4164**
program officer, natural and applied sciences **4161**
program officer, refugee affairs **4164**
program planner, education **4166**
program planner, music **5226**
program planner, radio **5226**
program planner, social services **4164**
program planner, special events **1226**
program researcher – radio or television **5123**
program services director – education **0413**
program supervisor – sports and leisure **4167**
program supervisor, fitness **4167**
program supervisor, recreation and leisure **4167**
program supervisor, sports **4167**
program supervisor, sports, recreation and leisure **4167**
programmed-instruction writer **5121**
programmer analyst **2174**
programmer, animation **2174**
programmer, CAD/CAM (computer-assisted design/computer-assisted manufacturing) **2233**
programmer, CAD-CAM/NC (computer-aided design/computer-aided manufacturing/numerical control) **2233**
programmer, CNC (computer numerical control) Mastercam **2233**
programmer, CNC-CMM (computer numerically controlled coordinate measuring machine) **2233**
programmer, computer numerical control (CNC) Mastercam **2233**
programmer, computer numerically controlled coordinate measuring machine (CNC/CMM) **2233**
programmer, computer-aided design/computer-aided manufacturing/numerical control (CAD-CAM/NC) **2233**
programmer, computer-assisted design/computer-assisted manufacturing (CAD/CAM) **2233**
programmer, interactive media **2174**
programmer, special effects **2174**
programmer, systems **2174**
programmer, web **2174**
programming director – broadcasting **0512**
programming director – television **0512**
programming manager **5226**
programs manager, leisure **0513**
programs manager, recreation **0513**
progress report clerk, construction **1473**
progressive die fitter **7232**
project accountant **1111**
project administration officer **1221**
project administrator **0611**
project co-ordinator, construction **0711**

project engineer, chemical **2134**
project engineer, construction **2131**
project forester **2122**
project management chief – scientific affairs **0212**
project manager, construction **0711**
project manager, interior design **5242**
project mechanical engineer **2132**
project officer, international aid and development **4164**
project officer, marketing **4163**
project officer, multiculturalism **4164**
projectionist **5227**
projectionist, motion pictures **5227**
projector assembler **9498**
projects engineer, aeronautical **2146**
promotion representative **1122**
promotion specialist **1122**
promotion strategies consultant **1122**
promotions manager **0611**
prompter **5227**
proof clerk – financial sector **1434**
proof machine operator **1431**
proof press operator **7381**
proof press operator – printing **7381**
proof press operator, gravure – printing **7381**
proof press operator, letterpress – printing **7381**
proof press operator, offset lithographic – printing **7381**
proof press operator, photoengraved plates – printing **7381**
proof pressman/woman – printing **7381**
proof teller – bank **1433**
proof tester, shotguns **9498**
proofer – printing **7381**
proofing hand – printing **7381**
proofing press operator **7381**
proofmaker – printing **9472**
proofreader **1452**
proofreader, manuscripts **1452**
proofsheet approver – printing **9471**
propane gas attendant **6621**
propane gas pump attendant **6621**
propane refueler **6621**
propane tank attendant **6621**
propellant blender **9232**
propeller inspector – machining **7231**
propeller inspector, aircraft **7315**
propeller mechanic – aircraft assembly **9481**
propeller repair foreman/woman **7216**
properties custodian – stage productions or motion pictures **5226**
property accountant **1111**
property acquisitions area manager **1224**
property adjuster – insurance **1233**
property administrator **1224**
property and equipment insurance clerk **1434**
property appraiser **1235**
property assessor **1235**
property clerk **1434**
property leasing co-ordinator **1224**
property management agent **1224**
property management officer **1224**
property management operations co-ordinator **1224**
property manager **0721**
property master – broadcasting **5226**
property master – motion pictures, broadcasting and performing arts **5226**
property paralegal **4211**
property person **5227**
property rental agent **1224**
property rental co-ordinator **1224**
property rentals manager **1224**
property section head **1224**
property standards inspector **6463**
property surveyor **2154**
property underwriter – insurance **1234**
property use inspector **6463**
property valuator **1235**
props handler **5227**
props person **5227**
propulsion engineer – aerospace vehicles **2146**
propulsion technician **7315**
prosecuting attorney **4112**
prosecutor **4112**
prospecting geologist **2113**
prospector **2212**
prospector, gold **2212**
prosthetic aide **3219**
prosthetic assistant **3219**
prosthetic technician **3219**
prosthetic-orthotic technician **3219**
prosthetist **3219**
prosthetist assistant **3219**
prosthetist-orthotist **3219**
prosthodontist **3113**
protection co-ordinator – forestry **2223**
protection engineer, electrical systems **2133**
protection services director – government services **0411**
protection technologist – electrical power system **2241**
protective coatings chemist **2112**
protective earmuffs assembler **9498**

protective relay engineer **2133**
protective services executive director **0013**
protective signal operator **1475**
protective signal servicer helper **7612**
protein chemist **2112**
prothonotary **1227**
protocol officer – government services **4168**
prototype machinist **7231**
prototype tester, outboard motors **9486**
protozoologist **2121**
protozoology biologist **2121**
provincial co-ordinator, social services **0314**
provincial court clerk **1443**
provincial court judge **4111**
provincial court of appeal justice **4111**
provincial land surveyor **2154**
provincial supreme court justice **4111**
provincial team coach **5252**
provost – university **0312**
pruner, vineyard **8431**
psychiatric aide **3413**
psychiatric and mental health nurse **3152**
psychiatric nurse **3152**
psychiatric nursing supervisor **3151**
psychiatric social worker **4152**
psychiatrist **3111**
psychiatry professor – university **4121**
psychiatry, chief of **0311**
psychic **6484**
psychic consultant **6484**
psychic reader **6484**
psychoanalyst **3111**
psychoeducational consultant **4153**
psychoeducator **4153**
psycholinguist **4169**
psychological assistant **4212**
psychological associate **4151**
psychological services director **0314**
psychologist **4151**
psychologist – counselling **4151**
psychologist – military **4151**
psychologist, school **4151**
psychology assistant (non-university) **4164**
psychology director – health care **0311**
psychology professor – university **4121**
psychology research assistant (except university) **4164**
psychology, chief of **0311**
psychometrician **4169**
psychometrist **4169**
psychopharmacologist **3111**
psychotherapist **4151**
PTA (physical therapist assistant) **3235**
public accountant **1111**
public accountants chief **1111**
public accountants supervisor **1111**
public address (P.A.) operator **5225**
public address (P.A.) system announcer **5231**
public address (P.A.) system installer and repairer **2242**
public address (P.A.) system operator **5225**
public adjuster – insurance **1233**
public administration professor – university **4121**
public administrator – government services **0411**
public affairs director **0611**
public affairs officer **5124**
public affairs officer – military **5124**
public and community health nurse **3152**
public assistance adviser **4164**
public health bacteriologist **2121**
public health dentist **3113**
public health dietician **3132**
public health director **0411**
public health engineer **2131**
public health inspector **2263**
public health inspectors supervisor **2263**
public health municipal officer – government services **0411**
public health nurse **3152**
public health nurse consultant **3152**
public health nursing educational director – government services **0411**
public health nursing services director **0311**
public health nursing supervisor **3151**
public health nutritionist **3132**
public health physician **3112**
public health professor – university **4121**
public health safety inspector **2263**
public health statistician **2161**
public health unit supervisor **2263**
public housing officer **4164**
public housing policy analyst **4164**
public image consultant – personal consultants **6481**
public information director **0611**
public interviewer **1454**
public liability underwriter – insurance **1234**
public notice delivery person – courier service **1463**
public opinion collector **1454**
public opinion interviewers supervisor **1213**
public opinion survey researcher **4164**
public relations agent **5124**
public relations clerk **1453**

public relations consultant **5124**
public relations co-ordinator **5124**
public relations director **0611**
public relations manager **0611**
public relations officer **5124**
public relations practitioner **5124**
public relations press agent **5124**
public relations press secretary **5124**
public relations representative **5124**
public relations specialist **5124**
public rights co-ordinator **4164**
public speaking consultant **6481**
public trustee **1221**
public utilities manager **0912**
public welfare director **0314**
public works director **0414**
public works engineer **2131**
public works inspector – construction **2264**
public works labourer **7621**
public works maintenance equipment operator **7422**
public works maintenance equipment operators supervisor **7217**
public works superintendent **0414**
publication clerk **1452**
publication clerks supervisor **1213**
publication distributor – wholesale **6411**
publication sales representative – wholesale **6411**
publications editor **5122**
publications manager **0512**
publicist **5124**
publicity administrator **0611**
publicity agent **5124**
publicity co-ordinator **5124**
publicity director **0611**
publicity information officer **5124**
publicity manager **0611**
publicity writer **5121**
public-speaking instructor **4131**
public-speaking teacher **4131**
publisher **0016**
publisher's sales representative – wholesale **6411**
publishing clerk **1452**
publishing house director **0512**
publishing house general manager **0016**
publishing manager **0512**
puff gun operator – food and beverage processing **9461**
puffed cereal maker **9461**
pug mill operator – clay products **9414**
puisne judge **4111**
puller-laster – rubber products manufacturing **9423**
pullman conductor **7362**
pulmonary disease specialist **3111**
pulmonary function technologist **3214**
pulmonary medicine physician **3111**
pulmonary medicine specialist **3111**
pulmonologist **3111**
pulp and paper engineer **2134**
pulp and paper engineer, chemical **2134**
pulp and paper labourer **9614**
pulp and paper machinery builder **7316**
pulp and paper manufacturing technologist **2233**
pulp and paper mill foreman/woman **9215**
pulp and paper mill manager **0911**
pulp and paper product sales representative **6411**
pulp and paper size maker **9432**
pulp and paper technician **2233**
pulp and paper technologist **2233**
pulp baler – pulp and paper **9432**
pulp bleach liquor maker **9432**
pulp cook **9233**
pulp dryer operator **9432**
pulp grader **9432**
pulp maker **9233**
pulp mill equipment operator **9432**
pulp mill foreman/woman **9215**
pulp mill machine operator **9432**
pulp press tender **9433**
pulp processing foreman/woman – pulp and paper **9215**
pulp refiner operator – pulp and paper **9432**
pulp tester – pulp and paper **9432**
pulp testers foreman/woman **9215**
pulp washer **9432**
pulp washer operator – pulp and paper **9432**
pulper tender – food and beverage processing **9461**
pulping control operator **9233**
pulping foreman/woman – pulp and paper **9215**
pulping group operator – pulp and paper **9233**
pulping technician **9233**
pulp-log recleaner **9614**
pulpstone builder **9414**
pulpstone cage builder – metal fabrication **9514**
pulp-washer helper **9614**
pulpwood buyer **1225**
pulpwood cutter **8421**
pulpwood harvester operator **8241**
pulpwood piler **8616**
pulpwood products tester **9432**

pulverizer and sifter tender – chemical processing **9421**
pulverizing and sifting equipment tender – chemical processing **9421**
pulvimixer operator **7421**
pump and compressor sales representative – wholesale **6411**
pump attendant **6621**
pump mechanic and repairer **7311**
pump operator – service station **6621**
pump operator, coke by-products – chemical processing **9421**
pump operator, water plant **9424**
pump operator, well treatment – oil field services **8412**
pump seaman/woman **7434**
pump station operator – pipelines **9232**
pump station operator – water treatment **9424**
pump tender, cement and concrete **7611**
pumper operator – oil field services **8412**
pumphouse operator – water treatment **9424**
pumping and blending foreman/woman – chemical processing **9212**
pumping and pipeline equipment operators foreman/woman **9212**
pumping station foreman/woman **9212**
pumping station operator **9232**
pump-installer and repairer helper **7612**
pumpman/woman – oil field services **8412**
pumpman/woman – ships **7434**
punch and shear machine operator – metal fabrication **9514**
punch press helper – metal products manufacturing **9612**
punch press operator **9514**
punch press operator – metal fabrication **9514**
punch press operator – rubber products manufacturing **9423**
punch press setter – metalworking **9514**
puncher and shearer – metal products manufacturing **9514**
puppeteer **5232**
purchase order clerk **1474**
purchaser **1225**
purchaser, furniture and furnishings **1225**
purchasing agent **1225**
purchasing and inventory management co-ordinator **1215**
purchasing and inventory supply technician – military **1474**
purchasing chief **0113**
purchasing clerk **1474**
purchasing clerk assistant **1474**
purchasing clerks supervisor **1215**
purchasing contracts administrator **1225**
purchasing contracts analyst **1225**
purchasing contracts director **0113**
purchasing contracts management officer **1225**
purchasing contracts manager **0113**
purchasing contracts negotiator **1225**
purchasing contracts officer **1225**
purchasing control clerk **1474**
purchasing director **0113**
purchasing expediter **1473**
purchasing manager **0113**
purchasing officer **1225**
purchasing supervisor **1225**
purchasing-services contracts negotiator **1225**
purification operator – chemical processing **9232**
purification operator – zinc oxide leach **9411**
purifier operator – food and beverage processing **9461**
purity control operator – zinc leaching **9231**
purse maker, leather **9498**
purse seine fisherman/woman **8262**
purser – air transportation **6432**
purser – water transportation **6432**
purser, airline **6432**
pursers instructor **4131**
purveyor, wholesale **6411**
putty applicator – furniture and fixtures manufacturing **9619**
pyrographer **5244**
pyrometallurgical engineer **2142**
pyrometallurgist **2115**
pyrotechnics assembler **9498**

Q

QA (quality assurance) analyst – informatics **2171**
QA (quality assurance) engineer **2141**
quahog digger **8613**
qualified customs broker **1236**
qualified operator, non-destructive testing **2261**
quality assurance (QA) auditor, software **2171**
quality assurance (QA) engineer **2141**
quality assurance analyst, information systems **2171**
quality assurance inspector – steel mill **9415**
quality assurance officer **2262**
quality assurance technologist **2233**
quality auditor, industrial standards **1122**

quality control checker – food and beverage processing **9465**
quality control chemist **2112**
quality control director – chemistry **0212**
quality control engineer **2141**
quality control foreman/woman – metal machining **7211**
quality control foreman/woman – textiles **9216**
quality control inspector – plastic products manufacturing **9495**
quality control inspector – textiles **9444**
quality control inspector – wood products manufacturing **9493**
quality control inspector, automotive engines – motor vehicle manufacturing **9482**
quality control inspector, glass **9415**
quality control inspector, linoleum **9495**
quality control manager – pharmaceutical products **0212**
quality control technician – chemical processing **2211**
quality control technician – chemistry **2211**
quality control technician – food processing **2211**
quality control technician (except chemical) **2233**
quality control technologist – chemical processing **2211**
quality control technologist – food processing **2211**
quality control technologist – industrial engineering **2233**
quality control technologist (except chemical) **2233**
quality control technologist, chemical products **2211**
quality control technologist, electrical and electronics **2241**
quality control tester – textiles **9444**
quality control tester, beer bottling line **9465**
quality control troubleshooter, electronics **2241**
quality controller – textiles **9444**
quality upgrader, assembly – motor vehicle manufacturing **9482**
quality-control assembly inspector, automotive engines **9486**
quality-control assembly inspector, marine engines **9486**
quality-control services manager **0911**
quantitative historian **4169**
quantity surveyor – construction **2234**
quantity surveyor-estimator **2234**
quarantine officer – public health **2263**
quarry driller **7372**
quarry dump attendant **7611**
quarry foreman/woman **8221**
quarry labourer **7611**
quarry manager **0811**
quarry supervisor **8221**
quarrying manager **0811**
quarrying operations manager **0811**
quartermaster **7433**
quartz crystal etcher and plater – electronic equipment manufacturing **9483**
quartz lamp assembler **9484**
quartzware fabricator – stone products **9414**
quaternarist **2113**
quaternary scientist **2113**
quaternary specialist **2113**
Quebec notary **4112**
Queen's Bench registrar **1227**
Queen's Counsel **4112**
quenching car operator **9411**
quenching foreman/woman – mineral and metal processing **9211**
quenching foreman/woman – primary metal processing **9211**
quick print machine operator **9471**
quick print machine tender – photographic processing **9474**
quill winder – textile manufacturing **9441**
quiller – textile manufacturing **9441**
quiller machine fixer – textile manufacturing **7317**
quiller setter – textile manufacturing **7317**
quilling machine tender, automatic – textile manufacturing **9441**
quilter fixer – textile manufacturing **7317**
quilter mechanic – textile manufacturing **7317**
quilter setter-fixer – textile manufacturing **7317**
quilter, hand **5244**
quilting foreman/woman – textile processing **9216**
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radiology technologist **3215**
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rail operations superintendent **0713**
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rail saw operator – railway **7432**
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rail transport manager **0713**
rail transportation traffic engineer **2131**
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rail-grinder operator – railway **7432**
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railroad claims adjuster – insurance **1233**
railroad commissioner **0012**
railway accident investigation officer **2262**
railway car and locomotive pipefitter **7252**
railway car assembler **9486**
railway car cleaner **6662**
railway car controller – railway yard **7431**
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railway car distributor **7431**
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railway car loader **7452**
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railway car maintenance foreman/woman **7216**
railway car maintenance supervisor **7216**
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railway car repair foreman/woman **7216**
railway car repairer foreman/woman **7216**
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railway carman/woman **7314**
railway carman/woman apprentice **7314**
railway carman/woman inspector **7314**
railway coach repairer **7314**
railway conductor **7362**
railway construction and maintenance superintendent **7217**
railway cook **6242**
railway dining car food service supervisor **6212**
railway division superintendent **0713**
railway engineer **7361**
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railway equipment and supplies technical sales specialist **6221**
railway equipment and supplies technical salesperson **6221**
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railway equipment inspector **7314**
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railway freight manager **0713**
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railway labourer **7622**
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railway mail clerk **1461**
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railway passenger agent **6434**
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railway police officer **6261**
railway police supervisor **0641**
railway reservations clerk **6434**
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railway rolling stock manufacturing foreman/woman **7216**
railway rolling stock production manager **0911**
railway signal installer **7242**
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railway signalman/woman **7431**
railway special agent **6465**
railway special agent – police **6261**
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railway surveyor **2154**
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railway technician **2231**
railway tie inspector **7432**
railway track inspector **7432**
railway track labourer **7622**
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railway track maintenance foreman/woman **7217**
railway track maintenance labourer **7622**
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railway transport operating support foreman/woman **7221**
railway transport operations supervisor **7221**
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raise miner helper **8411**
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ramp attendant, air transport **7437**
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ramp manager – airline **0713**
ramp services supervisor – airport **1215**
ramp station attendant – air transport **7437**
ranch foreman/woman **8253**
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range manager **2223**
ranger, golf course **6671**
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RCMP (Royal Canadian Mounted Police) officer **6261**
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RDMS (registered diagnostic medical sonographer) **3216**
RDN (registered dietitian-nutritionist) **3132**
RDT (registered dental technician) **3223**
RDT (registered dental technologist) **3223**
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reactor physicist **2111**
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real estate appraiser **1235**
real estate assessor **1235**
real estate branch manager **0121**
real estate broker **6232**
real estate clerk **1434**
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real estate office manager **0121**
real estate paralegal **4211**
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real estate sales consultant **6232**
real estate sales district manager **0121**
real estate sales manager **0121**
real estate sales managing director **0121**
real estate sales representative **6232**
real estate sales supervisor **6232**
real estate salesperson **6232**
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recreation administrator in chief **0513**
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recreation and leisure programs supervisor **4167**
recreation and leisure supervisor **4167**
recreation and sports attendant **6671**
recreation and sports director **0513**
recreation association information officer **5124**
recreation attendant **6671**
recreation centre director **0513**
recreation centre sports director **0513**
recreation chief administrator **0513**
recreation consultant **4167**
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recreation director **0513**
recreation equipment erector **7441**
recreation establishment director **0513**
recreation establishment managing supervisor **0513**
recreation facility manager **0721**
recreation head administrator **0513**
recreation instructor **5254**
recreation leader **5254**
recreation manager **0513**
recreation park attendant **6671**
recreation planner **2153**
recreation policy analyst **4167**
recreation program leader **5254**
recreation programmer **4167**
recreation programs director **0513**
recreation programs manager **0513**
recreation service director **0513**
recreation service manager **0513**
recreation services co-ordinator **4167**
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recreation supervisor **4167**
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recreation vehicle assembler **9486**
recreation vehicle mechanic **7383**
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recreation vehicle service technician **7383**
recreation vehicle technician **7383**
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recreational campground manager **0632**
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recruiting manager **0112**
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recruitment and training officer – police **6261**
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recruitment consultant **1223**
recruitment officer **1223**
recruitment specialist **1223**
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refinery operator **9232**
refinery process operator – primary metal processing **9231**
refinery process technician **9232**
refinery superintendent **0911**
refinery unit foreman/woman **9212**
refining and metalworking engineer **2142**
refinisher, bathtubs **9496**
refinisher, ceramic and enamel **9496**
refinisher, furniture **9494**
refinisher, stoves **9496**
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reflectoscope tester **2261**
reflexologist **3232**
reformatory guard **6462**
refractory brick repairer-mason **7281**
refractory bricklayer **7281**
refractory bricklayer foreman/woman **7219**
refractory bricklayer helper **7611**
refractory builder **7281**
refractory mason **7281**
refractory mortar mixer **9414**
refractory tamp moulder – clay products **9414**
refrigerant gas leak tester **9484**
refrigeration and air conditioning equipment insulator **7293**
refrigeration and air conditioning equipment insulators foreman/woman **7219**
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refrigeration and mechanical technician **7313**

refrigeration and mechanical technician – military **7313**
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refrigeration engineer **2132**
refrigeration equipment gas charger **9484**
refrigeration foreman/woman **7216**
refrigeration mechanic **7313**
refrigeration mechanic apprentice **7313**
refrigeration mechanic helper **7612**
refrigeration mechanics foreman/woman **7216**
refrigeration plant foreman/woman **9212**
refrigeration plant operator **7351**
refrigeration plant operator helper **9613**
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refrigeration systems draftsperson **2253**
refrigeration technician **7313**
refrigeration technician – military **7313**
refrigeration unit inspector **9484**
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refrigerator crater **9619**
refrigerator inspector – electrical appliance manufacturing **9484**
refrigerator repairer **7332**
refrigerator servicer **7332**
refrigerator servicer, domestic **7332**
refugee affairs program officer **4164**
refuse collector **7621**
refuse truck driver – public works **7422**
regional administrative manager **0114**
regional administrator, social services **0314**
regional attorney **4112**
regional bank manager **0122**
regional census manager **1213**
regional claims and benefits officer – employment insurance **1228**
regional collection manager **0122**
regional communications director **0611**
regional controller **0111**
regional correctional administrator **0314**
regional credit manager **0122**
regional Crown prosecutor **4112**
regional development analyst **4163**
regional development officer **4163**
regional director, education programs **0413**
regional director, labour – government services **0411**
regional director, Métis development programs – government services **0411**
regional director, sales **0611**
regional director, social services – government services **0411**
regional economic development agency officer **4163**
regional economic services manager – government services **0412**
regional economist **4162**
regional financial analyst **1112**
regional forest inventory officer **2122**
regional industrial development officer **4163**
regional inventory officer – forestry **2122**
regional library director **0511**
regional manager – telecommunications system **0131**
regional manager, agricultural representatives **0212**
regional manager, bank **0122**
regional manager, child welfare – government services **0411**
regional manager, employment insurance – government services **0411**
regional manager, income security – government services **0411**
regional manager, rural and Native housing – government services **0411**
regional municipality chair **0011**
regional municipality general director **0012**
regional museum technician **5212**
regional officer, industrial development **4163**
regional pay centre chief – employment insurance **0411**
regional planner **2153**
regional recycling and waste reduction program co-ordinator **4161**
regional sales director **0611**
regional sales manager **0611**
regional sales representative – wholesale **6411**
regional schools superintendent **0313**
regional services chief **1221**
regional services manager – postal and courier services **0132**
regional superintendent – schools **0313**
regional taxation manager **0412**
regional transmitter technician **5224**
regional vice-president – financial, communications and other business services **0013**
regional vice-president – goods production, utilities, transportation and construction **0016**
regional vice-president – health, education, social and community services and membership organizations **0014**
regional vice-president – trade, broadcasting and other services **0015**

regional vice-president, hotel chain **0015**
regional vice-president, petroleum production company **0016**
regional vice-president, trust company **0013**
registered building technician **2251**
registered building technologist **2251**
registered cardiology technologist **3217**
registered care aide **3413**
registered central service technician – medical **3414**
registered clinical counsellor **4153**
registered community health nurse **3152**
registered dance therapist (DTR) **3144**
registered dental assistant **3411**
registered dental hygienist **3222**
registered dental technician **3223**
registered dental technologist **3223**
registered dental therapist **3222**
registered dermal therapist **6482**
registered diagnostic cardiac sonographer **3216**
registered diagnostic medical sonographer (RDMS) **3216**
registered dietitian (RD) **3132**
registered dietitian-nutritionist (RDN) **3132**
registered electrocardiography technician **3217**
registered emergency medical aid **3234**
registered emergency paramedic **3234**
registered graphic designer (RGD) **5241**
registered industrial nurse **3152**
registered interior designer **5242**
registered investment representative **1113**
registered mail clerk **1461**
registered marriage and family therapist **4153**
registered massage practitioner **3235**
registered massage therapist (RMT) **3235**
registered medical technologist **3211**
registered midwife (RM) **3232**
registered nurse – public and community health **3152**
registered nurse (R.N.) **3152**
registered nursing assistant (R.N.A.) **3233**
registered nutritionist **3132**
registered occupational hygienist **4161**
registered orthopedic technologist **3414**
registered orthotic technician (R.T.O.) **3219**
registered patent agent **4161**
registered pharmacist **3131**
registered physical therapist **3142**
registered physiotherapist **3142**
registered practical nurse (R.P.N.) **3233**
registered professional dietitian **3132**
registered professional forester (RPF) **2122**
registered professional nutritionist **3132**
registered prosthetic and orthotic technician (R.T.P.O.) **3219**
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registered public health nurse **3152**
registered radiology technologist **3215**
registered representatives supervisor **1113**
registered respiratory care practitioner **3214**
registered respiratory therapist (RRT) **3214**
registered social service worker **4212**
registered social worker **4152**
registered technologist – medical **3211**
registered technologist in nuclear medicine (RTNM) **3215**
registered technologist in radiation therapy **3215**
registered technologist in radiography (RTR) **3215**
registered technologist, ultrasound **3216**
registered trademark agent **4211**
registered ultrasound technologist **3216**
registered vascular technologist **3218**
registered veterinary technician **3213**
registrar – college or university **0312**
registrar – courts **1227**
registrar clerk **1441**
registrar in bankruptcy **1227**
registrar of deeds **1227**
registrar of probate **1227**
registrar of wills **1227**
registrar, community college **0312**
registrar, museum **5212**
registration clerk **1441**
registration unit supervisor **1211**
registry clerk **1441**
registry officer – marriages **1227**
registry supervisor **1211**
regulator and tester – telecommunications **7246**
regulator, marine traffic **2275**
regulatory officer, engineering **2262**
regulatory toxicologist **2121**
rehabilitation aide **3414**
rehabilitation and renovation specialist **0712**
rehabilitation assistant **3414**
rehabilitation consultant occupational therapist **3143**
rehabilitation counsellor **4153**
rehabilitation instructor **4215**
rehabilitation instructor for persons who are blind **4215**
rehabilitation nursing supervisor **3151**

rehabilitation officer – social services **4212**
rehabilitation residential services director **0314**
rehabilitation service worker **4212**
rehabilitation services director – medical services **0311**
rehabilitation specialist **3111**
rehabilitation teacher **4215**
rehabilitation teacher for persons who are blind **4215**
rehabilitation worker – social services **4212**
rehabilitation worker, pipelines **7442**
rehearsal musician **5133**
reinforced concrete inspector **2264**
reinforcer, foam cushions – plastic products manufacturing **9495**
reinforcing cage maker **9516**
reinforcing cage winding machine operator **9516**
reinforcing iron worker **7264**
reinforcing rodworker **7264**
reinforcing steel ironworker **7264**
reinforcing wire mesh worker **7611**
reinsurance analyst **1111**
reinsurance underwriter – insurance **1234**
relaster – shoe manufacturing **9619**
relay adjuster – telecommunications **7246**
relay interpreter **5125**
relay tester – telecommunications **7246**
relay tester and maintainer – electrical power system **7243**
relay tester and repairer – electrical power system **7243**
relief clerk **1441**
relief operator – telephone system **1424**
relieving surface foreman/woman – mining **8221**
religion professor – university **4121**
religion psychologist **4217**
religious and moral education high school teacher **4141**
religious education director **0314**
religious education worker **4217**
religious nurse **3152**
religious superior- religious community **4217**
religious superior/mother superior **4217**
relish maker – food and beverage processing **9461**
relocation commissioner **1221**
relocation consultant **4213**
relocation counsellor **4213**
remedial education aide **6472**
remedial gymnast **3144**
remedial gymnastics teacher (except education) **3144**
remedial gymnasts' supervisor **3144**
remedial herbalist **3232**
remedial herbologist **3232**
remedial teacher – college **4131**
remedial teacher – elementary school **4142**
remedial teacher – secondary school **4141**
remedial therapist **3144**
remittance accounts clerk **1431**
remote broadcasting co-ordinator **5226**
remote computer terminal operator **1422**
remote sensing (RS) application specialist **2255**
remote sensing (RS) technician **2255**
remote sensing (RS) technologist **2255**
remote sensing engineer **2131**
remote sensing geologist **2113**
remote sensing pilot **2271**
remote sensing research scientist **2111**
remote-controlled underwater vehicle pilot – military **2255**
renal technician **3212**
renderer, graphic arts **5223**
rendering plant workers foreman/woman – meat packing **9213**
rendering specialist **5223**
renewal clerk – financial sector **1434**
renovation carpenter **7271**
renovation carpenter helper **7611**
renovation contractor **0712**
rental agent – retail **6421**
rental agent, apartments **1224**
rental agent, real estate **1224**
rental clerk – retail **6421**
rental clerk, storage space **6421**
rental counter representative **6421**
rental service supervisor – retail **6211**
rentals agent **1224**
rental-shop attendant, sporting goods **6421**
repair foreman/woman, power lines **7212**
repair foreman/woman, propellers **7216**
repair foreman/woman, telecommunication lines **7212**
repair lineman/woman – electric power systems **7244**
repair lineman/woman – telecommunications **7245**
repair seamstress, garments **7342**
repair ship owner-operator **7436**
repair shop estimator, automotive **7322**
repair shop foreman/woman, hydraulic units **7216**
repairer – electronics production **2241**
repairer – telecommunications **7246**
repairer helper, railway cars **7612**

repairer, air conditioners – window unit **7332**
repairer, aircraft accessories **7315**
repairer, aircraft bodies **7315**
repairer, aircraft skins **7315**
repairer, amplifiers **2242**
repairer, archery bows – sporting goods manufacturing **7445**
repairer, assembled wood products **9493**
repairer, awnings and tents **7445**
repairer, beer-dispensing equipment **7445**
repairer, bicycle **7445**
repairer, boat assembly **9491**
repairer, bows – stringed instruments **7445**
repairer, cable TV (television) converter and decoder equipment **7247**
repairer, camera **7445**
repairer, can seamer machines **7311**
repairer, carton-forming machines **7311**
repairer, central air conditioning **7313**
repairer, coil connectors **7333**
repairer, Dictaphones **7445**
repairer, domestic sewing machines **7445**
repairer, electric lawn mowers **7332**
repairer, electric meter **7333**
repairer, electric motor **7333**
repairer, electric sign **7445**
repairer, electric tools **7332**
repairer, electrical instruments **7333**
repairer, electronic equipment **2242**
repairer, electronic games **2242**
repairer, electronic organs **2242**
repairer, electronic typewriters **2242**
repairer, farm tractors **7312**
repairer, fibreglass boat assembly **9491**
repairer, fire extinguishers **7445**
repairer, forge equipment **7311**
repairer, forge shop machinery **7311**
repairer, gas appliances – customer service **7253**
repairer, gasoline-powered lawn mowers **7335**
repairer, gasoline-powered snow blowers **7335**
repairer, golf clubs **7445**
repairer, hearing aid **2242**
repairer, hooks – textile manufacturing **7317**
repairer, industrial process control equipment **2243**
repairer, inner tubes – rubber products manufacturing **9615**
repairer, leather glove **9451**
repairer, locks **7383**
repairer, looms – textile manufacturing **7317**
repairer, major electric household appliances **7332**
repairer, mechanical meters **7445**
repairer, medical instruments **2241**
repairer, metal furniture **9494**
repairer, mine hoists **7311**
repairer, musical instruments **7445**
repairer, needle beds – textile manufacturing **7317**
repairer, needle boards – textile manufacturing **7317**
repairer, neon signs **7445**
repairer, nucleonic controllers **2243**
repairer, oil tools **7311**
repairer, Oriental rugs **7445**
repairer, oven equipment **7311**
repairer, percussion instruments **7445**
repairer, photocopiers **2242**
repairer, piano **7445**
repairer, portable electric household appliances **7332**
repairer, radio communication equipment **2242**
repairer, radios **2242**
repairer, rollers – plastic manufacturing **9495**
repairer, safes and vaults **7383**
repairer, saws **7383**
repairer, scaffolding **7445**
repairer, scales **7445**
repairer, small arms **7383**
repairer, small engines **7335**
repairer, small equipment **7335**
repairer, sporting goods **7445**
repairer, sports equipment **7445**
repairer, steam turbines **7311**
repairer, storage battery **7333**
repairer, stringed instruments **7445**
repairer, surveying and optical instruments **7445**
repairer, survival equipment **7445**
repairer, switch network **7246**
repairer, teleprinters **7246**
repairer, teletypewriters (TTY) **7246**
repairer, textile machinery **7317**
repairer, textile-printing machine rollers – garment manufacturing **7317**
repairer, thermostats **7445**
repairer, tire tubes – rubber products manufacturing **9615**
repairer, trucks and transport vehicles **7321**
repairer, upholstery **7341**
repairer, vending machine **7445**
repairer, video cassette recorders **2242**
repairer, water conditioners **7441**
repairer, water softeners **7441**
repairer, water-softening systems **7441**

repairer, windmills **7311**
repairer, wood furniture – wood products manufacturing **9493**
repairer, wooden doors – wood products manufacturing **9493**
repairman/woman, aircraft accessories **7315**
repairman/woman, diesel locomotives – railway **7312**
repairman/woman, electric motor **7333**
repairman/woman, electric stoves **7332**
repairman/woman, hand tools **7445**
repairman/woman, locks **7383**
repairman/woman, power transformers **7333**
repairman/woman, sash and door manufacturing **9493**
repairman/woman, saws **7383**
repairman/woman, transformers **7333**
repairman/woman, waterworks **7442**
repayment and benefits control chief – employment insurance **0411**
repeater installer – telecommunications **7246**
repeater tester and adjuster – telecommunications **7246**
reporter **5123**
reporter, foreign affairs **5123**
reporter, newspaper **5123**
reporter, press **5123**
reporter, society **5123**
reporter, traffic **5231**
reporter, weather **5231**
representative, car-rental counter **6421**
representative, client service – airline **6433**
representative, customer service – airline **6433**
representative, government agricultural service **2123**
representative, securities **1113**
reproduction woodcarver **5136**
repulper operator **9432**
requirements officer – military **1221**
re-recording mixer **5225**
resaw operator – sawmill **9431**
resaw operator – woodworking **9513**
resawyer – sawmill **9431**
research administrator – university or college **0312**
research analyst, health policy **4165**
research analyst, securities **1112**
research and development manager **0212**
research and development occupational therapist **3143**
research anthropologist **4169**
research archaeologist **4169**
research archivist **5113**
research assistant – forestry **2223**
research assistant – postsecondary **4122**
research assistant (except university) **4164**
research assistant, psychology (except university) **4164**
research assistant, university **4122**
research associate, financial services **1112**
research audiologist **3141**
research biologist **2121**
research chemist **2112**
research dietitian **3132**
research director – forestry **0212**
research director – manufacturing **0212**
research director – mining **0212**
research director – university or college **0312**
research director, investments **0111**
research director, securities **0121**
research forester **2122**
research home economist **4164**
research laboratory equipment repairer **2241**
research mathematician **2161**
research metallurgist **2115**
research nutritionist **3132**
research occupational therapist **3143**
research officer – federal and intergovernmental affairs **4168**
research officer, agriculture – military **2121**
research officer, education **4166**
research officer, health services **4165**
research officer, social welfare **4164**
research physical therapist **3142**
research physiotherapist **3142**
research psychologist **4151**
research scientist – ceramics **2115**
research scientist – composite materials **2115**
research scientist, aerospace **2111**
research scientist, biochemistry **2112**
research scientist, chemistry **2112**
research scientist, communications **2111**
research scientist, electronics **2111**
research scientist, physics **2111**
research scientist, remote sensing **2111**
research technician, forestry conservation **2223**
research technician, life sciences **2221**
research technologist, forestry conservation **2223**
research technologist, petroleum **2211**
researcher, dance therapy **3144**
researcher, dance-movement therapy **3144**
researcher, health care **4165**
researcher, international aid and development **4164**

researcher, legal **4211**
researcher, market **4163**
researcher, marketing **4163**
researcher, music therapy **3144**
researcher, natural and applied sciences **4161**
researcher, organization and methods **1122**
researcher, radio **5123**
researcher, television **5123**
reservation agent – airline **6433**
reservation agent – wholesale **6411**
reservation agent, airline **6433**
reservation clerk – airline **6433**
reservation sales agent – airline **6433**
reservation sales agent – travel agency **6431**
reservations agent – cruise line **6434**
reservations agent – railway **6434**
reservations agent (except airline) **6434**
reservations clerk – cruise line **6434**
reservations clerk – hotel **6435**
reservations clerk – wholesale travel **6434**
reservations clerk (except airline) **6434**
reservations clerk, railway **6434**
reservations manager **0632**
reservations supervisor **6216**
reservations supervisor – airline **6216**
reservations supervisor – hotel **6216**
reservations supervisor – travel agency **6216**
reserve administrator **1221**
reserves calculation clerk – financial sector **1434**
reservist – military **6464**
reservoir engineer – petroleum **2145**
reservoir engineering technician **2212**
residence cleaner **6661**
residence co-ordinator – group home **4212**
resident **3112**
resident care aide – medical **3413**
resident companion – medical **3413**
resident physician **3112**
resident, general practice **3112**
residential alarm system specialist **6465**
residential architect **2151**
residential boarding-home cleaner **6661**
residential building shingler **7291**
residential buildings technologist **2251**
residential cleaning service manager **0651**
residential construction bricklayer **7281**
residential construction company president **0016**
residential construction foreman/woman **7215**
residential construction manager **0711**
residential construction painter **7294**
residential construction plumber **7251**
residential construction supervisor **7215**
residential construction wirer **7241**
residential counsellor – group home **4212**
residential door installer **7441**
residential energy sales adviser **6221**
residential floor and wall covering installer **7295**
residential home builder **0712**
residential homes contractor **0712**
residential oil burner installer and servicer **7331**
residential oil burner mechanic **7331**
residential painter **7294**
residential property manager **1224**
residential real estate agent **6232**
residential real estate salesperson **6232**
residential renovation contractor **0712**
residential steep roofer **7291**
residential wall and floor covering installer **7295**
residential wireman/woman **7241**
residual metal recoverer **9411**
residue filter operator – zinc oxide leach **9411**
resilient floor installer **7295**
resilient floor layer **7295**
resistance brazer **7265**
resistance seam welder **7265**
resistance welder **7265**
resistance welder tender **7265**
resistance welder, hand **7265**
resistance welder-setter **7265**
resistance welding machine setter **7265**
resistance welding set-up man/woman **7265**
resistor assembler – electronic equipment manufacturing **9483**
resistor machine feeder **9483**
resistor-processing equipment operator **9483**
resort campground manager **0632**
resort manager **0632**
resource economist **4162**
resource officer, forest inventory **2223**
resource sharing and processing librarian **5111**
resource technician – forestry **2223**
respirator servicer and fitter **7445**
respiratory care nurse **3152**
respiratory care practitioner **3214**
respiratory disease specialist **3111**
respiratory nurse specialist **3152**
respiratory technician **3214**
respiratory technologist **3214**
respiratory therapist **3214**
respiratory therapy chief **3214**
respiratory therapy clinical instructor **3214**
respiratory therapy supervisor **3214**
respirologist **3111**
respirology, chief of **0311**

respite care aide **3413**
respooler – textile manufacturing **9441**
rest home cleaner **6661**
rest room attendant **6661**
rest room cleaner **6661**
restaurant assistant manager **0631**
restaurant cashier **6611**
restaurant cook **6242**
restaurant counter attendant **6641**
restaurant equipment sales representative **6411**
restaurant host/hostess **6451**
restaurant inspector **2263**
restaurant inspector – public health **2263**
restaurant manager **0631**
restaurant purchasing agent **1225**
restaurant purchasing officer **1225**
restaurant waiter/waitress – formal service **6453**
restaurateur – food services **0631**
restoration carpenter **7271**
restoration steeplejack **7383**
restoration stonemason **7281**
restoration technician **5212**
restorer, negatives – photographic processing **9474**
restrike hammer operator – metal forging **9512**
retail butcher **6251**
retail buyer **6233**
retail district manager **0611**
retail establishment president **0015**
retail investigator **6465**
retail loss investigator **6465**
retail loss prevention officer **6465**
retail management teacher – college or vocational institute **4131**
retail meat cutter **6251**
retail merchandiser **6233**
retail pharmacist **3131**
retail sales associate **6421**
retail sales clerk **6421**
retail sales manager **0621**
retail sales manager – e-commerce **0621**
retail sales representative **6421**
retail salesperson **6421**
retail shelf stocker **6622**
retail space planner **5242**
retail store department head **6211**
retail store floorman/woman **6465**
retail store floorwalker **6465**
retail store owner **0621**
retail store supervisor **6211**
retailer **0621**
retarder operator – railway yard **7431**
retort battery cook – food and beverage processing **9461**
retort tender – clay products **9414**
retort tender – food and beverage processing **9461**
retort unloader **9613**
retoucher – photography **5221**
retoucher, negatives **9474**
retoucher, photoengraving – printing **9472**
retread tire inspection foreman/woman **9214**
retread tire inspection supervisor – rubber products manufacturing **9214**
returning officer **4168**
return-to-work co-ordinator – disability management **4212**
return-to-work facilitator – disability management **4212**
re-upholsterer **7341**
revenue accounting and controls section chief **0111**
revenue accounting clerk **1431**
revenue agent **1228**
revenue officer **1228**
revenue programs chief **0412**
revenue programs manager – government services **0412**
revenue recovery officer **1228**
revenue stamp cutter **9435**
revenue supervisor **1228**
reverberatory furnace operator – primary metal processing **9231**
reverend **4154**
reversing mill operator – primary metal processing **9411**
reversing rolling mill operator – primary metal processing **9411**
review lawyer **4112**
reviser – translation **5125**
rewarper – textile manufacturing **9441**
rewinder – pulp and paper **9433**
rewinder – textile manufacturing **9441**
rewinder tender – pulp and paper **9433**
rewinder, processed paper **9433**
rewriter **5121**
RGD (registered graphic designer) **5241**
rheologist **2111**
rheumatologist **3111**
rheumatology, chief of **0311**
rhinologist **3111**
rib knitter – textiles **9442**
ribbing machine operator – textiles **9442**
ribbon inker **9517**
ribbon winder **9517**

ribbon-looping machine tender **9517**
rice mill worker **9461**
rice miller **9461**
ride attendant **6671**
ride attendant, go-cart **6671**
ride operator, amusement **6671**
rider **5251**
riding instructor **5254**
riding master **5254**
rifle case maker, leather **9452**
rig electrician **7242**
rig manager – oil and gas drilling **8222**
rig mechanic **7311**
rig mechanic helper **7612**
rig welder **7265**
rigger – aircraft assembly **9481**
rigger – motion pictures, broadcasting and performing arts **5227**
rigger – telecommunications **7245**
rigger (except shipbuilding and aircraft assembly) **7371**
rigger helper – shipbuilding **9612**
rigger mechanic, aircraft controls **9481**
rigger, aircraft – aircraft assembly **9481**
rigger, aircraft assembly **9481**
rigger, ship **7311**
rigger's helper – construction **7611**
rigging gaffer **5226**
rigging slinger **8241**
right of way agent **1235**
right of way inspector **6463**
rim bander, television picture tube **9483**
rim-fire-cartridge-priming machine tender **9516**
ring barker operator – wood processing **9434**
ring drill operator **8231**
ring frame operator – textile manufacturing **9441**
ring furnace operator **9421**
ring furnace operator helper **9421**
ring mandrel worker **9498**
ring mill operator – metal forging **9512**
ring spinner – textile manufacturing **9441**
ring stamper **9498**
rink attendant **6671**
rink ice maker **6671**
rink icer **6671**
rink supervisor **6216**
rinser – textile manufacturing **9443**
rip and groove machine tender – woodworking **9513**
ripper operator – heavy equipment **7421**
rip-rap placer **7611**
ripsaw grader-operator – woodworking **9513**
ripsaw matcher – woodworking **9513**
ripsaw operator – sawmill **9431**
ripsaw operator – stone products **9414**
ripsaw operator – woodworking **9513**
ripsawyer – stone products **9414**
risk management analyst **4162**
ritual slaughterer – meat packing plant **9462**
river and canal works engineer **2131**
river control operator **7352**
river driver **8616**
river pilot **2273**
riverboat captain **2273**
rivet heater – primary metal processing **9411**
rivet maker **9516**
rivet shaper **9516**
rivet tester – boat assembly **9491**
riveter, jewellery **9498**
riveting machine operator – electrical equipment manufacturing **9487**
riveting machine tender – electrical equipment manufacturing **9487**
RM (registered midwife) **3232**
RMT (registered massage therapist) **3235**
RN (registered nurse) **3152**
road and roll tester **9482**
road boss, highway and bridge maintenance **7217**
road boss, paving gang **7217**
road clerk **1441**
road construction boss **7217**
road construction foreman/woman **7217**
road construction inspector **2264**
road foreman/woman – railway transport **7221**
road foreman/woman, airport runways **7217**
road foreman/woman, freight train **7221**
road foreman/woman, passenger train **7221**
road form setter **7611**
road freight brakeman/woman **7362**
road gang foreman/woman **7217**
road grader operator **7421**
road grading inspector **2264**
road maintenance clerk **1441**
road maintenance foreman/woman **7217**
road maintenance worker **7621**
road maintenance worker – public works **7621**
road mixer operator **7421**
road mixer operator helper **7611**
road paving inspector **2264**
road planer operator **7421**
road roller operator **7421**
road safety inspector **2262**
road snowplough operator – public works **7422**
road spray truck helper **7611**

road technician **2231**
road test mechanic **9482**
road traffic technician **2231**
road transport equipment restoration technician **5212**
road transport inspector **6463**
road transport terminal attendant **1453**
roadheader operator **8231**
roadmaker – underground mining **8411**
roadmaster – railway **7217**
roadway lighting design engineer **2133**
roaster operator – primary metal processing **9231**
robotic paint sprayer attendant **9496**
robotic spray paint attendant **9496**
robotics engineer **2132**
robotics servicing technician **2232**
robotics systems installer and repairer **2232**
robotics technician **2232**
robotics technologist **2232**
rock climbing guide **6442**
rock crusher foreman/woman – primary metal and mineral products processing **9211**
rock crusher tender – primary metal and mineral products processing **9411**
rock crushing foreman/woman – primary metal and mineral products processing **9211**
rock duster – underground mining **8614**
rock mechanics technician **2212**
rock or brick sandblaster **6662**
rock singer **5133**
rock splitter **9619**
rock wool operator – stone products **9414**
rockbolter **8231**
rocket components mechanic – avionics **2244**
rod drawer – primary metal processing **9411**
rod drawer helper – primary metal processing **9611**
rod mill operator – primary metal processing **9411**
rod puller and coiler – primary metal processing **9611**
rod-bending machine operator – metal fabrication **9514**
rodent control inspector **2263**
rodent control officer **2263**
rodent raiser **8251**
rodeo driver **5232**
rodeo horse rider **5232**
rodeo performer **5251**
rodman/woman – land surveying **7612**
rodworker apprentice **7264**
rolfer **3232**
rolfing movement teacher **3232**
roll bender operator – metal products manufacturing **9514**
roll builder – rubber products manufacturing **9423**
roll builder-repairer – rolling mills **7311**
roll building foreman/woman – rubber manufacturing **9214**
roll building supervisor – rubber products manufacturing **9214**
roll carrier – textile processing **9616**
roll changer – rubber manufacturing **9615**
roll coverer – rubber products manufacturing **9423**
roll cutter, machine – paper converting **9435**
roll finisher – paper **9433**
roll forger **9512**
roll grinder – rubber products manufacturing **9423**
roll hauler – textile processing **9616**
roll operator – metal fabrication **9514**
roll operator – plastic manufacturing **9422**
roll operator – rubber products manufacturing **9423**
roll setter – primary metal processing **9411**
roll setter – rolling mills **7311**
roll shop operations coach – steel mill **9211**
roll slicing machine tender – paper converting **9435**
roll slitter, machine – paper converting **9435**
roll table operator – primary metal processing **9411**
roll tester – motor vehicle manufacturing **9482**
roll threader operator **9516**
roll turner – textile processing **9616**
roll wrapper – paper **9433**
roller – primary metal processing **9411**
roller bearing assembly inspector **9498**
roller cleaner – textile processing **9616**
roller coverer – textile manufacturing **7317**
roller engraver – printing **9472**
roller machine tender – tannery **9453**
roller mill tender – food and beverage processing **9461**
roller operator **7421**
roller plate mill – primary metal processing **9411**
roller printer – textile manufacturing **9443**
roller repairer – industrial equipment **7311**
roller repairer – plastic manufacturing **9495**
roller repairer – rubber products manufacturing **9423**
roller repairman/woman – plastic manufacturing **9495**

roller repairman/woman – rubber products manufacturing **9423**
roller room equipment tender – food and beverage processing **9461**
rollerblading instructor **5254**
roller-leveller operator **9411**
rollerman/woman – wood processing **9614**
rollerman/woman, fishing vessel **8441**
roller-packer, glassfiber mats **9619**
roller-skating instructor **5254**
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rope twister **9442**
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rotary drilling machine operator **7372**
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rotary press operator **7381**
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rotary tiller assembler **9486**
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rotogravure cylinder technician **9472**
rotogravure foreman/woman **7218**
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route supervisor, retail sales **6211**
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rower **5251**
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Royal Canadian Mounted Police (RCMP) officer **6261**
royal commission officer **4168**
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royalty broker **1236**
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RPN (registered psychiatric nurse) **3152**
RRT (registered respiratory therapist) **3214**
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RS (remote sensing) technician **2255**
RS (remote sensing) technologist **2255**
RTNM (registered technologist in nuclear medicine) **3215**
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RTT (radiation therapy technologist) **3215**
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rubber footwear moulding supervisor **9214**
rubber footwear parts buffer **9423**
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rubber gasket gluer **9423**
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rubber glove maker **9423**
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rubber goods assembler **9423**
rubber goods cutter-finisher **9423**
rubber goods dipping foreman/woman **9214**
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rubber goods press operator **9423**
rubber goods repairer **9423**
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rubber hose building supervisor **9214**
rubber hose checker **9615**
rubber hose foreman/woman **9214**
rubber hose inspection and testing foreman/woman **9214**
rubber lining installer **9423**
rubber manufacturing roll changer **9615**
rubber mill operator **9423**
rubber mould supplier **1473**
rubber moulder operator – rubber products manufacturing **9423**
rubber press operator **9423**
rubber processing machine operator **9423**
rubber product sales representative – wholesale **6411**
rubber products assembler **9423**
rubber products inspection supervisor **9214**
rubber products inspector **9423**
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rubber products manufacturing labourer **9615**
rubber products manufacturing supervisor **9214**
rubber products polisher **9423**
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rubber products tester **9423**
rubber products washer-dryer **9423**
rubber products-manufacturing plant manager **0911**
rubber roll grinding inspector **9423**
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rubber shoe strap maker **9423**
rubber slab inspector, rubber **9423**
rubber snowtrack builder **9423**
rubber splitter – rubber products manufacturing **9423**
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rubber stamp maker **9423**
rubber stripper and applier **9423**
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rubberizing machine mechanic **7311**
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rug designer **5243**
rug installer **7295**
rug joiner **9451**
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rug setter – textile manufacturing **9441**
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rug underlay machine operator – rubber products manufacturing **9423**
rug weaver **9442**
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rughooker **5244**
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ruling machine operator – printing **9471**
rulings officer, taxation **1111**
runner – courier service **1463**
runner, gambling casino **6443**
runway manager **0713**
runway paving foreman/woman **7217**
rural and aboriginal housing regional manager – government services **0411**
rural and aboriginal housing services district director – government services **0411**
rural and Native housing regional manager – government services **0411**
rural and Native housing services district director – government services **0411**
rural development manager **0212**
rural development officer **4163**
rural development program manager **0212**
rural ecologist **2121**
rural electrification engineer **2133**
rural housing programs director – government services **0411**
rural mail carrier **1462**
rural sociologist **4169**
rural telephone maintainer **7246**

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safe and vault repairer **7383**
safe and vault servicer **7383**
safe and vault technician **7383**
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safety deposit box clerk **1434**
safety deposit box supervisor **1212**
safety earmuffs assembler **9498**
safety engineer **2141**
safety equipment salesperson **6221**
safety goggle assembly repairer – plastic products manufacturing **9495**
safety inspector, mines **2263**
safety officer **2263**
safety officer – construction **2264**
safety patrol officer – police **6261**
safety pin machine set-up operator **9516**
safety practitioner **2263**
safety razor blade honer **9517**
safety razor blade inspector **9498**
safety razor blade maker **9517**
safety systems mechanic, aircraft **7315**
safety systems technician – military **7445**
safety valve repairer, pipelines **7445**
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sail maker **5245**
sailboarder **5251**
sailboat assembler **9491**
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salad bar attendant **6641**
salad dressing finisher **9461**
salad maker **6641**
salary administration officer **1432**
salary analyst **1121**
salary analyst – economic policy **4162**
salary research and administration manager **0112**
sale executive, technical sales **6221**
sales administrator **0611**
sales agency marketing division director **0611**
sales agent – railway **6434**
sales agent – wholesale (non-technical) **6411**
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sales agent, counter (except airline) **6434**
sales agent, insurance **6231**
sales agent, passengers – airline **6433**
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sales and advertising manager **0611**
sales and advertising vice-president – trade, broadcasting and other services **0015**
sales and customer service agent **1433**
sales and distribution manager **0611**
sales and marketing director **0611**
sales and marketing manager **0611**
sales and promotions co-ordinator **0611**
sales and publicity manager **0611**
sales and rental clerk **6421**
sales assistant **6421**
sales associate **6421**
sales associate – retail **6421**
sales auditor – finances **1111**
sales broker – wholesale **6221**
sales clerk **6421**
sales clerk supervisor **6211**
sales clerk, automobile parts counter – retail **1472**
sales consultant – retail **6421**
sales consultant – wholesale (non-technical) **6411**
sales co-ordinator – wholesale (non-technical) **6411**
sales director – computer marketing development **0611**
sales director (except retail and wholesale) **0611**
sales district manager (except insurance and real estate) **0611**
sales engineer **6221**
sales engineer, technical support **6221**
sales executive – wholesale (non-technical) **6411**
sales general manager – trade, broadcasting and other services **0015**
sales greeter **6421**
sales manager (except retail and wholesale) **0611**

sales manager, e-commerce (electronic commerce) **0611**
sales manager, insurance **0121**
sales manager, package tours **0611**
sales order clerk **6421**
sales planning manager **0611**
sales promotion clerk **6421**
sales promotion manager **0611**
sales records supervisor **1212**
sales representative – retail **6421**
sales representative – wholesale (non-technical) **6411**
sales representative, alcoholic beverages – wholesale **6411**
sales representative, automobiles – retail **6421**
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sales representative, vending machine services **6411**
sales statistician **2161**
sales supervisor **6211**
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sales vice-president – goods production, utilities, transportation and construction **0016**
sales vice-president – pulp and paper manufacturing **0016**
sales vice-president – trade, broadcasting and other services **0015**
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salesperson, footwear – retail **6421**
salesperson, furniture and appliances – retail **6421**
salesperson, hardware – retail **6421**
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salesperson, housewares – retail **6421**
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salesperson, memorial – retail **6421**
salesperson, motor vehicles – retail **6421**
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salesperson, photographic equipment and supplies – retail **6421**
salesperson, real estate **6232**
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salesperson, sewing machines – retail **6421**
salesperson, sporting goods – retail **6421**
salesperson, tires – retail **6421**
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salesperson, training courses **6421**
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sanitary engineer **2131**
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sanitary standards inspector **2263**
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sanitation truck driver **7422**
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savings accounts supervisor **1212**
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savings supervisor **1212**
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scale maker **9498**
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scale operator, landfill **9613**
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scalers supervisor **2223**
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scalp treatment specialist **6482**
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scene designer assistant **5243**
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scenery painter **5136**
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scenic constructor **5227**
scenic constructor – motion pictures, broadcasting and performing arts **5227**
scenic painter – motion pictures, broadcasting and performing arts **5227**
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schedule analyst, air transport **1476**
schedule clerk **1473**
schedule control clerk **1476**
schedule maker **1476**
schedule maker, transportation **1476**
schedule writer **1476**
schedule writer, transportation **1476**
scheduler – transit system **1476**
scheduler, flight **1476**
scheduler, flight crews **1476**
scheduling clerks supervisor **1215**
scheduling technician – manufacturing **2233**
school adjustment officer **4143**
school adjustment specialist **4166**
school aide **6472**
school board administrator **0313**
school board services manager **0413**
school board trustee **0011**
school bus driver **7412**
school bus drivers supervisor **7222**
school counsellor **4143**
school crossing guard **6651**
school custodian **6663**
school district assistant superintendent **0313**
school district superintendent **0313**
school guidance department head **4143**
school health nurse **3152**
school inspection director – public administration **0413**
school inspector **4166**
school janitor **6663**
school liaison officer – police **6261**
school librarian – secondary school **4141**
school lunch-room supervisor **6472**

school maintenance manager **0721**
school nurse **3152**
school of art manager **0651**
school of nursing dean **0312**
school of nursing director **0312**
school of technology dean **0312**
school of technology director **0312**
school of technology manager **0312**
school principal **0313**
school psychologist **4151**
school safety officer – police **6261**
school secretary **1241**
school services director **0413**
school services director – public administration **0413**
school social worker **4152**
school subjects consultant **4166**
school superintendent **0313**
school teacher – secondary school **4141**
school vice-principal **0313**
science and technology curator **5112**
science and technology museum curator **5112**
science co-ordinator – education **4166**
science dean **0312**
science department head – secondary school **4141**
science high school teacher **4141**
science teacher – secondary school **4141**
scientific association chairperson **0014**
scientific consultant **4161**
scientific editor **5122**
scientific expert, handwriting **4169**
scientific glass apparatus blower **5244**
scientific handwriting expert **4169**
scientific illustrator **5241**
scientific instrument sales representative **6221**
scientific librarian **5111**
scientific photographer **5221**
scientific programmer **2174**
scientific research department manager **0212**
scientific research director **0212**
scientific research manager **0212**
scientific translator **5125**
scientific writer **5121**
scoop operator – underground mining **8231**
scoop tram operator **8231**
scoop tram operator – underground mining **8231**
scoreboard operator **5253**
scorekeeper **5253**
scorer – paper converting **9435**
scouring machine operator **9441**
scout, baseball **5252**
scout, basketball **5252**
scout, football **5252**
scout, hockey **5252**
scout, lacrosse **5252**
scout, professional sports **5252**
scout, sports **5252**
scow captain **7436**
scow operator **7436**
scrag-saw operator – sawmill **9431**
scrap buyer **6233**
scrap machine helper – primary metal processing **9611**
scrap metal baler – primary metal processing **9611**
scrap metal dealer **0611**
scrap metal loader **9611**
scrap metal processor – primary metal processing **9611**
scrap metal remelter – primary metal processing **9411**
scrap metal salesperson **6421**
scrap metal shredder **9411**
scrap metal shredder operator – primary metal processing **9411**
scrap metal sorter and baler – primary metal processing **9611**
scrap piler – wood processing **9614**
scrap preparation foreman/woman – primary metal and mineral products processing **9211**
scrap preparation foreman/woman – primary metal processing **9211**
scrap rubber grinder – recycling **9423**
scrap shredder helper **9611**
scrap yard worker – primary metal processing **9611**
scraper operator **7421**
scratcher tender **9421**
scray machine feeder **9441**
screed operator, asphalt paving **7421**
screen aluminizer, picture tube assemblies **9483**
screen cleaner – pulp and paper **9614**
screen cleaner – rubber products manufacturing **9615**
screen maker, wire **9516**
screen print operator **9471**
screen printer, hand – textile manufacturing **9443**
screen printing artisan **5244**
screen printing machine feeder **9619**
screen printing machine operator – printing **9471**
screen printing operator – textile manufacturing **9443**
screen printing paster **9619**

screen room foreman/woman – pulp and paper **9215**
screen room operator – pulp and paper **9432**
screen stencil cutter – graphic arts **5223**
screen tender – pulp and paper **9432**
screen tender, chips – wood processing **9434**
screen tender, coke **9411**
screen writer **5121**
screener – chemical processing **9421**
screener and weigher, nitrocellulose **9421**
screener-perfumer, detergents and powdered soaps **9421**
screening equipment helper – primary metal and mineral products processing **9611**
screening machine feeder – rubber products manufacturing **9615**
screening machine tender – food and beverage processing **9461**
screenmaker **9472**
screenman/woman – pulp and paper **9432**
screen-printing machine operator – textile manufacturing **9443**
screw machine operator – metal machining **9511**
screw machine operator, custom **9511**
screw machine set-up operator **9511**
screw threader **9511**
scribing machine tender **9516**
script and dialogue writer **5121**
script assistant **5227**
script editor **5122**
script person – motion pictures and broadcasting **5227**
script supervisor **5226**
script writer **5121**
scroll machine tender **9516**
scroll saw operator – woodworking **9513**
scroll-quilting machine operator **9442**
scrub nurse **3152**
scrubber brush assembler **9498**
scrubber brush maker **9498**
scrubber tender – mineral products processing **9611**
scuba diver – police **6261**
scuba-diving specialist – police **6261**
scudder – hide and pelt processing **9453**
sculptor **5136**
sculptor, metal **5136**
sculptor, monuments **5136**
sculptor, wood **5136**
sculptor-modeller **5136**
sculpture conservator **5112**
sculpture professor – university **4121**
sculpture teacher (except primary, secondary, post-secondary education) **5136**
sculpturing teacher (except primary, secondary, post-secondary education) **5136**
scutcher tender **9616**
sea farm attendant **8613**
sea farm worker **8613**
sea radar plotter – military **6464**
sea radio operator – military **1475**
sea signaller – military **6464**
sea-bottom technologist **2212**
sea-farming technologist **2221**
sea-floor technologist **2212**
seafood counter clerk **6421**
seafood preparer – fish processing **9463**
seafood sales clerk **6421**
seafood sales clerk – retail **6421**
seal hunter – hunting and trapping **8442**
sealant operator – chemical processing **9421**
sealer – aircraft assembly **9481**
sealer – hunting and trapping **8442**
sealer and tester, pressurized compartments – aircraft assembly **9481**
sealer operator – motor vehicle manufacturing **9482**
sealer, aircraft – aircraft assembly **9481**
sealer, dry cell – electrical equipment manufacturing **9487**
sealing machine tender – paper converting **9435**
seam caulker – construction **7611**
seaman/woman **7433**
seamless ball moulder **9517**
seamless hosiery knitter **9442**
seamless steel billet piercer – primary metal processing **9411**
seamless tube roller – primary metal processing **9411**
seamstress **7342**
search and rescue crew member – sports and recreation **5254**
search and rescue technician – military **3234**
search clerk, lost parcel post **1461**
search clerk, lost postal packages **1461**
searchlight operator **5227**
seasonal resort manager **0632**
seasonal swamper – logging forestry **8616**
seasonal tree planter **8616**
seasonal worker – public works **7621**
seasoning mixer – food and beverage processing **9617**
seat assembler – motor vehicle manufacturing **9482**

seat belt assembly inspector **9498**
seat installer – construction **7611**
seaweed dragger **8262**
seaweed gatherer **8613**
seaweed harvesting machine operator **8262**
second chef **6241**
second cook **6242**
second costumes assistant **5227**
second deck officer **2273**
second engineer **2274**
second engineer – water transport **2274**
second engineer, Coast Guard vessel **2274**
second engineer, factory freezer trawler **2274**
second engineer, marine – water transport **2274**
second engineer, self-propelled drilling rig **2274**
second hand, paper machine **9234**
second language program director **0413**
second mate **2273**
second mate – inland waters **2273**
second mate, fishing vessel **8261**
second mate, foreign-going **2273**
second mate, home trade **2273**
second mate, ship **2273**
second officer – air transport **2271**
second officer, Coast Guard vessel **2273**
second secretary, foreign service **4168**
second watchkeeping engineer, Coast Guard vessel **2274**
second watchkeeping officer, Coast Guard vessel **2273**
second, boxing **6671**
secondary school education director **0413**
secondary school librarian **4141**
secondary school principal **0313**
secondary school programs director **0413**
secondary school reading clinician **4141**
secondary school teacher **4141**
secondary school teacher, classical languages **4141**
secondary school teacher, physical education **4141**
secondary school teacher, special education **4141**
secondary school teacher, technical and vocational program **4141**
secondary school teacher's aide **6472**
secondary school teacher's assistant **6472**
secondary school vocational teacher **4141**
second-class stationary engineer **7351**
second-language instructor – language school **4131**
second-lass power engineer **7351**
seconds inspector-grader **9454**
secret service officer **6261**
secretarial college director **0312**
secretarial services teacher – college or vocational institute **4131**
secretary **1241**
secretary to the council – government services **0012**
secretary, church **1241**
secretary, litigation **1242**
secretary, membership **1241**
secretary, real estate **1242**
secretary, school **1241**
secretary, trademarks **1242**
secretary, ward – hospital **1243**
secretary-clerk **1241**
secretary-receptionist, medical office **1414**
secretary-stenographer **1241**
secretary-telephone operator **1241**
section boss, railway track **7217**
section foreman/woman, railway **7217**
section head, gambling casino **6443**
section head, slot machines **6443**
section labourer – railway **7622**
section leader, light fixture assembly **9484**
section lineman/woman – telecommunications **7245**
section manager – retail **0621**
section worker – railway **7432**
securities agent **1113**
securities analyst **1112**
securities analyst – personal finances **1114**
securities and investment manager **0121**
securities clerk – financial sector **1434**
securities counsellor **1114**
securities manager **0121**
securities representative **1113**
securities research analyst **1112**
securities research director **0121**
securities research manager **0121**
securities sales agent **1113**
securities sales director **0121**
securities salesman/woman **1113**
securities trader **1113**
securities underwriter **1114**
security alarm system consultant **6465**
security alarms installer **2242**
security alarms technician **2242**
security analysis officer – postal service **6465**
security and investigations officer **6465**
security constable – police **6261**
security consultant (except computer systems) **6465**

security department manager **0114**
security guard **6651**
security guard – explosives **6651**
security guard supervisor **6216**
security investigator **6465**
security manager **0114**
security officer **6651**
security officer – military **6261**
security officer – police **6261**
security officer (management) – military **0641**
security officer, private **6465**
security planner, systems **2171**
security service manager **0123**
security services sales consultant – wholesale **6411**
security services sales representative **6411**
security services sales representative – wholesale **6411**
security specialist (except computer systems) **6465**
security system salesperson **6411**
sedimentary geologist **2113**
sedimentologist **2113**
seed cleaning service contractor **8252**
seed cone collector **8422**
seed cone picker **8422**
seed corn grader **9465**
seed crop inspector **2222**
seed farmer **8251**
seed grains inspector **2222**
seed grower **8251**
seed packager **9619**
seed producer **8251**
seed technologist **2221**
seeding contractor **8252**
seiner deckhand **8441**
seiner fisherman/woman **8262**
seismic exploration observer **2212**
seismic prospecting driller **7372**
seismic prospecting observer **2212**
seismic prospecting observer helper **8615**
seismic technician **2212**
seismologist **2113**
seismology technician – petroleum geology **2212**
seismology technologist – petroleum geology **2212**
seismometer technician **2212**
select committee officer **4168**
selenium recovery helper – primary metal processing **9611**
self-improvement course instructor **4216**
self-instruction manual writer **5121**
self-propelled barge captain **2273**
self-propelled barge deck officer **2273**
self-propelled barge marine engineer officer **2274**
self-propelled drilling rig captain **2273**
self-propelled drilling rig chief engineer **2274**
self-propelled drilling rig first engineer **2274**
self-propelled drilling rig first mate **2273**
self-propelled drilling rig marine engineer officer **2274**
self-propelled drilling rig mate **2273**
self-propelled drilling rig second engineer **2274**
self-propelled oil rig deck officer **2273**
self-serve gas bar attendant **6611**
self-serve gas bar cashier **6611**
semiconductor assembler **9483**
semiconductor assembly foreman/woman **9222**
semiconductor calibrator **9483**
semiconductor material gauger – electronic equipment manufacturing **9483**
semiconductor mounter **9483**
semiconductor physicist **2111**
Senate committee officer **4168**
senator **0011**
senior accounting analyst **1111**
senior accounting clerk **1431**
senior accounts manager – banking, credit and investment **0122**
senior actuarial analyst **2161**
senior adjuvant **3414**
senior administrator, government agency **0012**
senior administrator, mail facilities **1214**
senior bookkeeper **1231**
senior buyer – purchasing **1225**
senior buyer – retail or wholesale **6233**
senior claims clerk **1434**
senior computer operator **2281**
senior consultant, operations management **1122**
senior cost accountant **1111**
senior editor **5122**
senior engineer, Coast Guard vessel **2274**
senior engineer, marine – water transport **2274**
senior estimator – construction **2234**
senior financial analyst **1112**
senior fire control technician **2223**
senior firefighting officer **0642**
senior foreman/woman – mining **8221**
senior industrial relations officer **1121**
senior intern auditor **1111**
senior investment officer **1112**
senior loans officer **1232**
senior marketing consultant **1122**
senior motion picture camera operator **5222**

senior negotiating officer – labour dispute resolution **1121**
senior operating technician **9232**
senior operator – chemical processing **9232**
senior planification and yield analyst **1112**
senior planner – land use **2153**
senior press operator – printing **7381**
senior pressman/woman – printing **7381**
senior project manager, construction **0711**
senior radiation therapy technologist **3215**
senior schedule writer **1476**
senior staffing officer **1223**
senior teller – financial services **1433**
senior underwriter – insurance **1234**
separation press tender **9421**
separator operator – food processing **9461**
separator-pasteurizer – food processing **9461**
septic system contractor **7219**
septic system installer **7441**
septic tank cleaner **6662**
septic tank installer **7441**
septic tank service manager **0651**
sergeant-at-arms, House of Commons **0012**
serger – garment manufacturing **9451**
serging machine operator **9451**
serial story writer **5121**
serial writer **5121**
serologist **2121**
serology technologist **3211**
serrating machine operator **9516**
serrating machine tender – metal products manufacturing **9516**
servant, domestic **6683**
server – food and beverage services **6453**
server administrator **2281**
service adviser **1453**
service agent, guests – hotel **6435**
service assistant – medical **3413**
service assistant – telephone system **1424**
service associate – medical **3413**
service attendant – gas station **6621**
service attendant – medical **3413**
service bartender **6452**
service centre technician – telecommunications **7246**
service crew worker – underground mining **8411**
service dispatcher **1475**
service engineer, electrical power systems **2133**
service foreman/woman, power lines **7212**
service inspector – telecommunications **7246**
service lineman/woman – electric power systems **7244**
service manager – marketing support **1122**
service manager – retail **0621**
service manager, leisure **0513**
service manager, recreation **0513**
service representative, business office – telecommunications **1453**
service rig helper **8615**
service rig helper – oil field services **8615**
service rig operator – oil field services **8232**
service rig roughneck – oil field services **8615**
service routeman/woman, pools **7441**
service sector worker **1473**
service station attendant **6621**
service station attendant apprentice **6621**
service station inspector **6463**
service station manager **0621**
service supervisor, telecommunication lines **7212**
service technician – electrical appliances **7332**
service technician – household and business equipment **2242**
service technician – motor vehicle repair **7321**
service technician, after sales service – motor vehicles **7321**
service technician, industrial instruments **2243**
service technician, office equipment **2242**
service technician, process control equipment **2243**
service technicians supervisor – household and business equipment **2242**
service tracer – telecommunications **7245**
service truck driver, heavy equipment **7443**
serviceman/woman, electric stoves **7332**
servicer, automatic door systems **7441**
servicer, automotive maintenance equipment **7445**
servicer, central air conditioning **7313**
servicer, Dictaphones **7445**
servicer, dictating machines **7445**
servicer, electronic cash registers **2242**
servicer, fire equipment **7445**
servicer, gas **7253**
servicer, gas appliances – customer service **7253**
servicer, gas meters **7445**
servicer, heavy equipment **7443**
servicer, locomotives **7431**
servicer, meters **7445**
servicer, mobile home **7441**
servicer, mobile home equipment **7441**
servicer, parking meters **7445**
servicer, photocopy machine **2242**
servicer, pipeline equipment **7443**
servicer, pools **7441**

servicer, swimming pool **7441**
servicer, water conditioner **7441**
servicer, water heaters **7441**
services contracts negotiator **1225**
services manager – education programs **0413**
session musician **5133**
set builder **5227**
set decorator – theatre and motion pictures **5243**
set designer – theatre **5243**
set dresser **5227**
set electrician **5226**
setter – jewellery manufacturing **7344**
setter helper, timber and steel prop **8614**
setter, artificial stones **7281**
setter, button machine **9517**
setter, button-covering machine **9517**
setter, can machine **9516**
setter, can-making machine **9516**
setter, coil-winding machine – industrial electrical equipment **9485**
setter, envelope-flap-cutting machine **9435**
setter, envelope-making machine – paper converting **9435**
setter, exhaust equipment – electronic equipment manufacturing **9483**
setter, grid machine **9516**
setter, level vials **9619**
setter, loom – textile manufacturing **7317**
setter, looms **7317**
setter, looper – textile manufacturing **7317**
setter, machine tools **9511**
setter, marble **7283**
setter, milling machines **9511**
setter, monuments **7611**
setter, mules – textile manufacturing **7317**
setter, ornaments **9517**
setter, pencil maker **9517**
setter, pins – textile manufacturing **7317**
setter, plastics-moulding machine **9422**
setter, plastics-processing machine **9422**
setter, shuttles – textile manufacturing **7317**
setter, simulated stones **7281**
setter, skids **7611**
setter, steel forms – underground mining **8411**
setter, wire loom **9516**
setter, wire-weaving loom **9516**
setter, wooden casket moulding **9493**
setter, wooden casket top frames **9493**
setter, woodworking machines **9513**
setter-up, wood cooperage – woodworking **9513**
setting foreman/woman logging **8211**
settings shop foreman/woman **5226**
settlement liaison officer **4164**
settlement management associate **1233**
settlement programs director – government services **0411**
settlement specialist **1233**
settler-filterer – chemical processing **9421**
set-up machinist **7231**
set-up man/woman, cooperage – woodworking **9513**
set-up man/woman, core room – foundry **9412**
set-up man/woman, dentures **3223**
set-up man/woman, electrical lamp-making machines **9487**
set-up man/woman, machine tools **9511**
set-up man/woman, resistance welding **7265**
set-up operator – metal machining **9511**
set-up operator, aircraft engine parts machine tool **9511**
set-up operator, automated machine tool **9511**
set-up operator, bag-making machine – paper converting **9435**
set-up operator, boring mill – metal machining **9511**
set-up operator, bottle cap seal machine **9517**
set-up operator, brick machine – clay products **9414**
set-up operator, casing-in machine – printing **9473**
set-up operator, diesinking machine **9511**
set-up operator, dowel machine – woodworking **9513**
set-up operator, drill press – metal machining **9511**
set-up operator, EDM (electrical discharge machine) **9511**
set-up operator, electrostatic painting machine **9496**
set-up operator, engine lathe **9511**
set-up operator, flatware-buffing machine **9517**
set-up operator, gathering machine – printing **9473**
set-up operator, gear-shaving machine **9511**
set-up operator, grinder – metal machining **9511**
set-up operator, horizontal boring mill **9511**
set-up operator, industrial needle machine **9516**
set-up operator, jig grinder **9511**
set-up operator, keyseater **9511**
set-up operator, link wire machine **9516**
set-up operator, machine – plastic manufacturing **9422**
set-up operator, machine tool **9511**
set-up operator, machining equipment **9511**

set-up operator, nail making machine **9516**
set-up operator, numerically controlled (NC) machine tool **9511**
set-up operator, perfect binder – printing **9473**
set-up operator, precision grinder **9511**
set-up operator, rotary-head milling machine **9511**
set-up operator, saddle stitching machine – printing **9473**
set-up operator, safety pin machine **9516**
set-up operator, spring machine **9516**
set-up operator, spring-making machine **9516**
set-up operator, staple machine **9516**
set-up operator, stitching machine – printing **9473**
set-up operator, woodworking machine **9513**
set-up technician, flexographic presses – printing **7381**
sewage control engineer **2131**
sewage disposal foreman/woman **9212**
sewage disposal inspector – environmental health **2263**
sewage disposal manager **0912**
sewage pipelayer **7611**
sewage plant manager **0912**
sewage plant operator **9424**
sewage treatment plant manager **0912**
sewage treatment plant mechanic **7311**
sewage treatment plant supervisor **9212**
sewage treatment system director **0912**
sewage-processing equipment tender **9424**
sewer – garment manufacturing **9451**
sewer construction foreman/woman **7217**
sewer construction inspector **2264**
sewer digger **7611**
sewer flusher operator-driver – public works **7422**
sewer inspector, closed circuit TV **2264**
sewer installation foreman/woman **7217**
sewer jet cleaner operator – public works **7422**
sewer jet machine operator – public works **7422**
sewer maintenance worker **7621**
sewer services foreman/woman **9212**
sewer system maintenance worker **7621**
sewer, fur goods **9451**
sewer, textile products **9451**
sewer-flushing truck operator – public works **7422**
sewer-pipe-cleaning machine operator – public works **7422**
sewing instructor – non-vocational **4216**
sewing machine assembler **9486**
sewing machine assembly tester **9486**
sewing machine mechanic – domestic **7445**
sewing machine mechanic helper **7612**
sewing machine operator **9451**
sewing machine operator, automatic **9451**
sewing machine operator, fur **9451**
sewing machine operators foreman/woman – fabric, fur and leather products manufacturing **9225**
sewing machine operators supervisor **9225**
sewing machine repairer helper **7612**
sewing machine salesperson – retail **6421**
sewing machine servicer – domestic **7445**
sewing teacher – elementary school **4142**
sewing teacher – non-vocational **4216**
sewing teacher – secondary school **4141**
sex therapist **4153**
sexer, chicks **8431**
sexologist **4153**
shackle hoist operator – meat packing plant **9462**
shade matcher – textiles **9444**
shader – furniture finishing and refinishing **9494**
shadow mask shaper **9516**
shaft conveyance operator **8411**
shaft driller **8231**
shaft inspector **8231**
shaft miner **8231**
shake and shingle machine foreman/woman – sawmill **9215**
shake inspector – wood processing **9436**
shake maker **9431**
shake packer **9614**
shake sawyer **9431**
shaker repairer **7445**
shakerhand – oil and gas drilling **8615**
shaker-plate tender **9516**
shaman **3232**
shampooer **6683**
shank cementer – shoe manufacturing **9619**
shaper – wood products manufacturing **9513**
shaper – woodworking **9513**
shaper operator – woodworking **9513**
shaper operator, cement pipes – concrete products **9414**
shaper set-up operator **9511**
shaper, gunstocks – woodworking **9513**
shaper, lacrosse sticks – woodworking **9513**
shaper, oars – woodworking **9513**
shaper, rivets **9516**
shaper, structural steel plates **7263**
sharpener operator, metal blades **9516**
sharpener tender, bits **9612**
sharpener, grinding stones **9414**
shaver operator – woodworking **9513**

shaver tender – woodworking **9513**
shaving machine tender – hide and pelt processing **9453**
shear helper – metal fabrication **9612**
shear operator **9514**
shear operator – metal fabrication **9514**
shear setter – metal fabrication **9514**
shearer – metal working **9514**
shearer operator – underground mining **8231**
shearing machine fixer – textile manufacturing **7317**
shearing machine operator – underground mining **8231**
shearing machine tender **9443**
shearing machine tender – textile manufacturing **9443**
sheather helper **7611**
shed foreman/woman – construction **7217**
sheep farm operator **8251**
sheep farmer **8251**
sheep feedlot worker **8431**
sheep handler **8253**
sheep herdsperson **8253**
sheep shearer **8431**
sheep shearing contractor **8252**
sheep sticker **9462**
sheet and plate inspector – steel mill **9415**
sheet finisher, plastic **9495**
sheet metal assembler – aircraft assembly **9481**
sheet metal brake tender **9514**
sheet metal contractor **7214**
sheet metal corrugator **9514**
sheet metal cutter – metal fabrication **9514**
sheet metal fabrication inspector **9514**
sheet metal fabricator **7261**
sheet metal installer **7261**
sheet metal instructor – secondary school **4141**
sheet metal lithographic press operator **7381**
sheet metal lithographic pressman/woman **7381**
sheet metal mechanic **7261**
sheet metal mechanic apprentice **7261**
sheet metal model maker **7261**
sheet metal patternmaker **7261**
sheet metal polisher and buffer **9612**
sheet metal roll operator – metal fabrication **9514**
sheet metal roofer **7261**
sheet metal roofing contractor **7214**
sheet metal spinner – metal fabrication **9514**
sheet metal technician, aircraft **7315**
sheet metal work erector **7261**
sheet metal worker **7261**
sheet metal worker – manufacturing **7261**
sheet metal worker – specialty manufacturing **7261**
sheet metal worker helper – construction **7611**
sheet metal worker, construction **7261**
sheet metal worker, maintenance **7261**
sheet metal workers foreman/woman **7214**
sheet metal workers supervisor **7214**
sheet paper inspector **9433**
sheet paper sampler **9433**
sheet roller – primary metal processing **9411**
sheet roller helper – primary metal processing **9611**
sheet rolling mill operator – primary metal processing **9411**
sheet rougher – primary metal processing **9411**
sheet rubber inspector **9423**
sheet steel inspector – primary metal processing **9415**
sheeter – rubber products manufacturing **9423**
sheeter helper – pulp and paper **9614**
sheeter operator – plastic manufacturing **9422**
sheeter operator – pulp and paper **9433**
sheet-metal-embossing machine operator **9514**
sheet-metal-working machine operator – metal products manufacturing **9514**
sheet-metal-working machine set-up operator **9514**
sheet-metal-working machine tender – metal fabrication **9514**
sheetrock applicator **7284**
shelf stocker – retail **6622**
shelf stocker – supermarket **6622**
shell assembler – explosives **9498**
shell core maker – foundry **9412**
shell mould assembler – foundry **9412**
shell mould bonder **9619**
shell moulder – foundry **9412**
shellac sprayers – furniture finishing and refinishing **9494**
shellacker **9496**
shell-case-chamfering machine tender **9516**
shellfish bed attendant **8613**
shellfish checker – fish processing **9618**
shellfish fisherman/woman **8262**
shellfish harvester **8613**
shellfish harvester deckhand **8441**
shellfish harvester operator **8262**
shellfish labourer **9618**
shellfish packer – fish processing **9618**
shellfish processing labourer **9618**
shellfish processor **9463**
shellfish processor, hand – fish processing **9463**

shellfish separator tender – fish processing **9463**
shellfish shucker – fish processing **9463**
shellfish-processing machine tender **9463**
shelter supervisor – social services **4212**
shelter workshop supervisor **4212**
shelving clerk – library **1451**
shepherd **8253**
sherardizer **9497**
sherardizer helper **9612**
sheriff **6461**
sheriff's bailiff **6461**
sheriff's officer **6461**
shiatsu therapist **3232**
shield operator **7421**
shielded-metal arc welder **7265**
shift boss – mining and quarrying **8221**
shift co-ordinator, steel mill **9211**
shift foreman/woman – mining and quarrying **8221**
shift leader – mining and quarrying **8221**
shift manager, fast food restaurant **6212**
shift manager, gambling casino **6443**
shift operating supervisor – pulp and paper **9215**
shift supervisor, petroleum processing **9212**
shift supervisor, power station **9212**
shingle cutter **9431**
shingle inspector – wood processing **9436**
shingle maker **9431**
shingle mill foreman/woman – wood processing **9215**
shingle mill supervisor – wood processing **9215**
shingle piler – material handling **7452**
shingle roofer **7291**
shingle roofing contractor **7219**
shingle sawyer **9431**
shingle trimmer **9614**
shingler **7291**
shingler trainee **7291**
shingler, asphalt **7291**
shingler, cedar **7291**
shingler, cedar shakes **7291**
shingler, wood **7291**
ship agent **1236**
ship boiler tender **7434**
ship broker **1236**
ship cargo agent **6434**
ship chandler **0621**
ship construction engineer **2148**
ship crane operator **7371**
ship detail draftsperson **2253**
ship engine fitter **7316**
ship engine room greaser **7434**
ship engine room mechanical assistant **7434**
ship engineer officer **2274**
ship first mate **2273**
ship inspector **2262**
ship joiner **7271**
ship joiners foreman/woman **7215**
ship keeper **1472**
ship loader operator **7451**
ship machinery fitter **7316**
ship machinery installer helper **7612**
ship management operations manager **0713**
ship master **2273**
ship model maker **7383**
ship passenger attendant **6672**
ship pilot **2273**
ship pipefitter **7252**
ship purser **6432**
ship repair technician **2232**
ship rigger **7311**
ship riggers foreman/woman **7214**
ship steamfitter **7252**
ship stoker **7434**
ship storekeeper **1472**
ship storeman/woman **1472**
ship supply clerk **1474**
ship supply officer **6432**
ship tunnelman/woman **7433**
ship watchkeeping mate **2273**
ship watchman/woman **7433**
shipboard firefighter **6262**
shipbuilding carpenter **7271**
shipbuilding draftsperson **2253**
shipbuilding electrician helper **7612**
shipbuilding engineer **2148**
shipbuilding fitter **7263**
shipbuilding fitter helper **9612**
shipbuilding joiner **7271**
shipfitter **7263**
shipfitter apprentice **7263**
shipfitter helper **9612**
shipfitters foreman/woman **7214**
shipline agent **1236**
shipline manager **0713**
shiploader operator **7451**
shipment assembler **7452**
shipper **1471**
shipper-receiver **1471**
shipping agent **1471**
shipping and receiving clerk **1471**
shipping and receiving supervisor **1215**
shipping and warehousing service manager **0713**
shipping clerk **1471**

shipping clerk – railway transport **1461**
shipping clerks supervisor **1215**
shipping control clerk **1473**
shipping co-ordinator **1215**
shipping sales representative **6411**
shipping services manager **0713**
shipping supervisor **1215**
ship's captain **2273**
ship's carpenter **7433**
ship's cook **6242**
ship's electrician **7242**
ship's electrician – shipbuilding and repair **7242**
ship's electrician – water transport **7242**
ship's mate **2273**
ship's plater **7263**
ship's supply officer – military **0114**
shipwright helper **9612**
shipwright, metal **7263**
shipwright, wood **7271**
shipyard electrician **7242**
shipyard electrician helper **7612**
shipyard labourer **9619**
shipyard machine shop foreman/woman **7211**
shipyard painter **9496**
shipyard painter foreman/woman **9226**
shipyard painter helper **9619**
shirt finisher – laundry and dry cleaning **6682**
shirt folder – laundry and dry cleaning **6682**
shirt inspector **9454**
shirt presser – laundry and dry cleaning **6682**
shirt-folding machine operator – laundry and dry cleaning **6682**
shock absorber installer **7443**
shoe cutter **9452**
shoe decoration assembler – footwear manufacturing **9498**
shoe decorator – footwear manufacturing **9498**
shoe designer **5243**
shoe dyer **7343**
shoe inspector **9454**
shoe manufacturing labourer **9619**
shoe mender **7343**
shoe parts cutter – footwear manufacturing **9452**
shoe parts dipper **9619**
shoe parts fastener **9517**
shoe parts former **9619**
shoe parts marker **9619**
shoe parts sewer **9451**
shoe patternmaker **5245**
shoe repair service manager **0651**
shoe repairer **7343**
shoe repairer – retail **7343**
shoe repairer helper, factory **9619**
shoe repairer, factory **9498**
shoe salesperson – retail **6421**
shoe sewer **9451**
shoe shiner **6683**
shoe stitcher **9451**
shoe stitcher, hand **9498**
shoe store manager **0621**
shoelace-tipping machine tender **9517**
shoe-last patternmaker **5245**
shoemaker **7343**
shoe-trimming machine operator – footwear manufacturing **9517**
shohet – meat packing plant **9462**
shooter – seismograph **8615**
shooter helper – seismic prospecting **8615**
shooting gallery operator **6671**
shop assembler – wood products manufacturing **9493**
shop clerk **6421**
shop foreman/woman, aircraft hydraulics repair **7216**
shop foreman/woman, appliance repair **7216**
shop foreman/woman, automotive body repair **7216**
shop foreman/woman, boilermaking **7214**
shop foreman/woman, engine rebuilding (except aircraft) **9226**
shop foreman/woman, household electrical appliance repair **7216**
shop foreman/woman, hydraulic unit repair **7216**
shop foreman/woman, meter repair **7216**
shop foreman/woman, motor vehicle repair **7216**
shop foreman/woman, small engine repair **7216**
shop foreman/woman, transformer repair **7216**
shop foreman/woman, veneering – furniture and fixtures manufacturing **9224**
shop foreman/woman, wheels – railway equipment **7216**
shop inspector – avionics **2244**
shop inspector, aircraft mechanical systems repair **7315**
shop inspector, aircraft repair **7315**
shop inspector, electrical accessories – avionics **2244**
shop manager **0621**
shop repairer – telecommunications **7246**
shop supervisor, automotive body repair **7216**
shop supervisor, automotive repair and service **7216**
shop supervisor, automotive testing **7216**
shop supervisor, electrical appliance repair **7216**

shop supervisor, motor vehicle repair **7216**
shop supervisor, small engine repair **7216**
shop supervisor, small equipment repair **7216**
shop tailor **7342**
shop technician, aircraft hydraulics **7315**
shop technician, aviation mechanical components **7315**
shopping investigator – security **6465**
shopping mall maintenance manager **0721**
shopping mall manager **0721**
shore captain – fishing **0811**
shore captain – water transport **0713**
shore dredging labourer **7611**
shore fisherman/woman **8262**
short story writer **5121**
short-distance runner **5251**
shorthand reporter **1244**
shorthand teacher – college or vocational institute **4131**
shorthand teacher – secondary school **4141**
short-order cook **6242**
short-wave receiving station technician **5224**
shortwood harvester operator **8241**
shot bagger – explosives manufacturing **9611**
shot firer **8231**
shot firer – underground mining **8231**
shot foreman/woman – mining and quarrying **8221**
shot grinder – metal products manufacturing **9612**
shot maker – foundry **9412**
shot put **5251**
shotblaster – metal fabrication **9612**
shotblasting machine operator – metal products manufacturing **9612**
shotblasting machine tender – metal products manufacturing **9612**
shotgun proof tester **9498**
shotgun-shell printer, machine **9471**
shotgun-shell-printing machine tender **9471**
shotman/woman – underground mining **8231**
shovel oiler **7443**
shovel operator – heavy equipment **7421**
shoveller – underground mining **8614**
show and demonstration designer **5243**
show horse rider **5232**
shower door and panel assembler **9498**
shredder operator – plastic recycling **9422**
shredder operator – tobacco processing **9464**
shredder operator – woodworking **9513**
shredding machine operator – food processing **9461**
shredding machine operator – plastic recycling **9422**
shredding machine tender – chemical processing **9421**
shrimp peeler – fish processing **9463**
shrimp peeler tender – fish processing **9463**
shrimp processor – fish processing **9463**
shrinker, hat cones **9498**
shrinking machine operator – textile manufacturing **9443**
shrouder – food and beverage processing **9617**
shrub grower **8254**
shucker – fish processing **9463**
shucker, clams – fish processing **9463**
shucker, oysters – fish processing **9463**
shucker, scallops – fish processing **9463**
shuttle bus driver **7412**
shuttle car operator **8411**
shuttle filler – textile processing **9616**
shuttle finisher – woodworking **9513**
shuttle fixer – textile manufacturing **7317**
shuttle inspector, wood **9493**
shuttle maker – woodworking **9513**
shuttle operator **7412**
shuttle planer – woodworking **9513**
shuttle setter – textile manufacturing **7317**
shuttle shaper and tip inserter – woodworking **9513**
sic bo croupier **6443**
side boom operator – pipeline construction **7421**
side boom tractor operator **7421**
side seaming tender **7265**
side stitcher, machine **9473**
side stitching machine operator – printing **9473**
sideboom mechanic **7312**
sider helper **7611**
siderographer – printing **9472**
sidewalk cleaner **7621**
sidewalk concrete finisher **7282**
sidewalk snowplough operator **7621**
sidewalk-cleaning equipment operator **7621**
sidewall core sampler – oil field services **8232**
siding applicator **7441**
siding checker-messenger – railway transport **7622**
siding contractor **7219**
siding installer **7441**
sieve repairer **7445**
sifting machine feeder – rubber products manufacturing **9615**
sightseeing boat captain **7436**
sightseeing boat master **7436**

sightseeing boat operator **7436**
sightseeing bus driver **7412**
sightseeing guide **6441**
sightseeing tour driver **7412**
sightseeing tour guide, horse-drawn vehicles **6441**
sign and display leasing agent **6411**
sign and display sales representative **6411**
sign carpenter **7271**
sign designer **5241**
sign erector **7441**
sign erector, commercial **7441**
sign erector, highways **7611**
sign inspector **6463**
sign installer **7441**
sign language instructor **4215**
sign language interpreter **5125**
sign language platform interpreter **5125**
sign layout detailer **5223**
sign letterer **9496**
sign maker **9498**
sign painter **5223**
sign panel primer **9496**
sign spray painter **9496**
sign writer **5223**
sign writer, machine **9471**
signal engineer **2133**
signal gang helper **7622**
signal maintainer, railway **7242**
signal tower operator – railway **7431**
signal tracer – telecommunications **7245**
signaling system installation foreman/woman **7212**
signaller, sea – military **6464**
signalman/woman – railway transport **7431**
signalman/woman, railway **7431**
silhouette artist **5136**
silicon wafer fabricator **9483**
silicon wafer grower **9483**
silk finisher – laundry and dry cleaning **6682**
silk flower maker, hand **5244**
silkscreen artist **5136**
silkscreen assembler – printing **9472**
silk-screen printing machine operator **9471**
silk-screen printing machine operator – textile manufacturing **9443**
silkscreen stencil cutter **5223**
silkscreen technician **5223**
silk-screen tender – printing **9471**
silk-screening machine operator **9471**
silver chaser **7344**
silver plater **9497**
silver spray operator **9497**
silverer, mirrors **9413**
silvering machine feeder **9619**
silversmith **5244**
silverware buffer **9517**
silverware cleaner **6641**
silverware engraver **5244**
silverware manufacturing supervisor **9227**
silverware salesperson – retail **6421**
silviculture contractor **8211**
silviculture supervisor **8211**
silviculture technician **2223**
silviculture technologist **2223**
silviculture worker **8422**
silviculturist **2223**
simulated stone mason **7281**
simulation software design engineer **2173**
simulations analyst – computer systems **2171**
simultaneous interpreter **5125**
singeing and boiling machine tender – textile manufacturing **9443**
singeing machine tender **9617**
singer **5133**
singers agent **5124**
singer-songwriter-composer **5132**
single-needle sewing machine operator **9451**
single-ply roofer **7291**
single-spindle drill press set-up operator – metal machining **9511**
sink-float equipment operator – metal processing **9411**
sintering machine loader – primary metal processing **9611**
sintering machine operator **9411**
sintering plant foreman/woman – mineral and metal processing **9211**
sintering plant foreman/woman – primary metal and mineral products processing **9211**
sintering press tender – foundry **9412**
sister/brother – religion **4217**
site foreman/woman, construction **7217**
site interpreter, adventure travel **6441**
site manager, construction **0711**
site planner **2153**
site superintendent, construction **0711**
sitter **6474**
sixth hand – pulp and paper **9614**
size maker – textile manufacturing **9441**
size maker, pulp and paper **9432**
sizing and trimming machine adjuster – explosives manufacturing **9516**
sizing machine operator – fabric **9517**
sizing machine tender – textiles **9441**

sizing saw tender, plywood – wood processing **9434**
skate maker **9517**
skate press operator **9517**
skate shop attendant **6421**
skateboarding instructor **5254**
skater **5251**
skating instructor, ice **5254**
skein spooler – textile manufacturing **9441**
skein winder – textile manufacturing **9441**
skein yarn examiner – textiles **9444**
skeiner – textile manufacturing **9441**
ski area supervisor **6216**
ski coach **5252**
ski equipment repairer **7445**
ski instructor **5254**
ski instructor – sports and recreation **5254**
ski lift attendant **6671**
ski lift attendant supervisor **6216**
ski lift operator **6671**
ski lift supervisor **6216**
ski maker **9517**
ski patrol **5254**
ski patroller **5254**
ski resort host/hostess **6441**
ski resort manager **0632**
ski shop retail clerk **6421**
ski tow attendant **6671**
ski tow operator **6671**
skid setter – pipeline construction **7611**
skidder – fruit packing **7452**
skidder operator **8421**
skidder operator – logging **8421**
skidders foreman/woman – logging **8211**
skier **5251**
skiffman/woman, fishing vessel **8441**
skimmer – primary metal and mineral products processing **9611**
skimmer, distillery **9461**
skin care consultant **6482**
skin care specialist **6482**
skin care technician **6482**
skin disease specialist **3111**
skin diver, commercial **7382**
skin fitter – aircraft assembly **9481**
skin specialist **3111**
skin-former machine tender – plastic manufacturing **9422**
skinner operator – fish processing **9463**
skinner, animals – meat packing plant **9462**
skinning machine feeder – food and beverage processing **9617**
skinning machine setter – fish processing **9463**
skip loader – underground mining **8411**
skip operator **7371**
skip tender **8411**
skip tender – underground mining **8411**
skip tracer – collection **1435**
skipper, fishing vessel **8262**
skipper, gillnetter **8262**
skipper, tugboat **2273**
skiver – rubber products manufacturing **9423**
skiver, machine – leather products **9517**
skiver, rubber V-belts **9423**
skylight assembler – plastic products manufacturing **9495**
slab caster – steel rolling mill **9411**
slab machine operator – rubber products manufacturing **9423**
slab maker, precast concrete **9414**
slab saw operator **9431**
slabber **9421**
slabbing mill roller – primary metal processing **9231**
slab-off machine tender – rubber products manufacturing **9615**
slab-off man/woman – rubber products manufacturing **9615**
slack-rope performer – entertainment **5232**
slag pelletizer – primary metal processing **9411**
slasher – textile manufacturing **9441**
slasher loader operator **8241**
slasher operator – logging **8241**
slasher operator – sawmill **9431**
slasher operator – textile manufacturing **9441**
slasher operator helper – textile processing **9616**
slasher saw operator – logging **8241**
slasher saw operator – sawmill **9431**
slasher sawyer operator – logging **8241**
slasher trim operator – sawmill **9431**
slasher-brusher **8241**
slat picker – woodworking **9513**
slat slicer – wood products **9513**
slate bed maker – clay products **9414**
slate cutter **9414**
slate mixer **9414**
slate picker **8614**
slate-cutting and slate-grinding machine tender **9414**
slaughterer – meat packing plant **9462**
slaughterer, ritual – meat packing plant **9462**
slaughterhouse butcher **9462**
slaughterhouse foreman/woman **9213**

slaughtering and meat packing workers foreman/woman **9213**
sleeping bag finisher **9498**
sleeping car conductor **7362**
sleeping car porter **6672**
sleeve-making machine tender – electrical equipment manufacturing **9487**
sleever – paper converting **9435**
sleight-of-hand artist **5232**
sliced cheese maker **9461**
slicing machine operator – food and beverage processing **9461**
slicing machine tender – food and beverage processing **9461**
slickline operator – oil field services **8232**
slide fastener chain machine tender **9517**
slide fastener links machine tender **9516**
slide fastener links maker **9516**
slide fastener machine operator **9517**
slide fastener machine tender (except plastic products) **9517**
slide forming machine setter – metal fabrication **9514**
slide forming machine set-up operator **9514**
slide forming machine tender – metal fabrication **9514**
slide maker – photographic processing **9474**
slide-fastener-cutting machine operator **9517**
slide-fastener-sewing machine operator **9451**
slime recoverer – primary metal processing **9411**
slime recovery operator – primary metal processing **9411**
slime recovery plant helper – primary metal processing **9611**
slime treater – primary metal processing **9411**
slinger – construction **7611**
slip form curb machine tender **7611**
slip mixer tender **9414**
slip sealer – mineral products processing **9611**
slip seat coverer – furniture assembly **9619**
slipcover cutter – fabric products manufacturing **9452**
slipper maker **9451**
slitter and rewinder **9452**
slitter operator – plastic manufacturing **9422**
slitter operator – rubber products manufacturing **9423**
slitter operator, asphalt roofing materials **9517**
slitter tender, knit tubing **9517**
slitter-creaser – paper converting **9435**
slitter-creaser feeder – paper converting **9435**
slitter-creaser operator – paper converting **9435**
slitter-rewinder **9452**
slitter-scorer – paper converting **9435**
sliver lapper – textile manufacturing **9441**
slot machine attendant, gambling casino **6443**
slot machines section head **6443**
slot supervisor **6443**
slubber tender – textile manufacturing **9441**
slubber, hand **9441**
sludge pump operator – underground mining **8411**
sludge worker – primary metal processing **9611**
slug-press feeder **9613**
slurry controller – primary metal processing **9231**
slurry equipment operator – primary metal and mineral products processing **9411**
slurry mixer **9435**
slusher operator – underground mining **8231**
small animal veterinarian **3114**
small animal veterinary specialist **3114**
small arms repairer **7383**
small arms tester **9498**
small business counsellor **4163**
small claims court judge **4111**
small claims court registrar **1227**
small claims court supervisor **1227**
small craft operator **7436**
small electric motor assembler **9484**
small electric motor core and shaft assembler **9484**
small electric motor tester **9484**
small electrical appliance assembler **9484**
small electrical appliance assembly lead hand **9484**
small electrical appliances inspector **9484**
small electrical products assembler **9484**
small engine and equipment mechanic **7335**
small engine assembly foreman/woman **9226**
small engine assembly supervisor **9226**
small engine mechanic **7335**
small engine repair foreman/woman **7216**
small engine repairer **7335**
small engine technician **7335**
small equipment mechanic apprentice **7335**
small equipment repairer **7335**
small fruit picker **8611**
small marine engine assembler **9486**
small parts assembler – motor vehicle manufacturing **9482**
small transformer assembler – electrical equipment manufacturing **9484**
small transformer core builder **9484**
small transformer inspector **9484**

small transformer tester **9484**
small-aircraft model maker **7383**
small-boat navigation instructor **4216**
small-engine mechanic helper **7612**
small-engine repair shop foreman/woman **7216**
small-engine repair shop supervisor **7216**
small-equipment repair shop supervisor **7216**
small-machines repair shop supervisor **7216**
smelter engineer, minerals **2142**
smelter foreman/woman -- primary metal and mineral products processing **9211**
smelter helper **9611**
smelter labourer **9611**
smelter liner **7611**
smelting furnace operator – primary metal processing **9231**
smelting plant engineer **2142**
smoke chamber tender, fish – fish processing **9463**
smoke shop clerk **6421**
smoked meat preparer – food and beverage processing **9617**
smokehouse operator – food and beverage processing **9461**
smokestack bricklayer **7281**
smokestack repairer **7383**
smoking pipe air hole driller **9513**
smoking pipe burler – woodworking **9513**
smoking pipe maker – woodworking **9513**
smoking pipe sander **9513**
smoking-pipe stainer **9496**
smoothing machine tender – shoe manufacturing **9619**
snack bar attendant **6641**
sniper – military **6464**
snow controller **2213**
snow fence erector **7441**
snow removal equipment operator – public works **7422**
snow shoveller **8612**
snowblower operator – railway **7432**
snowboarder **5251**
snowboarding instructor **5254**
snow-grooming machine operator **7421**
snowmaker **6671**
snowmaking equipment operator **6671**
snowmaking facility attendant **6671**
snowmaking machine operator **6671**
snowmobile assembler **9486**
snowmobile assembly foreman/woman **9226**
snowmobile assembly supervisor **9226**
snowmobile final inspector **9486**
snowmobile inspector **9486**
snowmobile operations guide **6442**
snowmobile repairer **7334**
snowmobile repairman/woman **7334**
snowmobile test rider **9486**
snowplough operator, highway **7422**
snowplough operator, road – public works **7422**
snowplough operator, sidewalk **7621**
snowshoe weaver **9498**
snowtrack foreman/woman – rubber manufacturing **9214**
snubbing-unit operator **8412**
snuff can inspector **9464**
snuff dryer – tobacco processing **9464**
snuff grinder – tobacco processing **9464**
snuff-blending machine operator – tobacco processing **9464**
snuff-packing machine tender **9617**
soaking pit bottom cleaner – primary metal processing **9611**
soap and toilet goods preparations inspector **9498**
soap boiler **9421**
soap chipper **9421**
soap cutter and stamper **9421**
soap flake dryer operator **9421**
soap maker **9421**
soccer coach **5252**
soccer player **5251**
social aid officer **4212**
social and cultural anthropologist **4169**
social animator **4212**
social anthropologist **4169**
social assistance advisor **4164**
social assistance director **0314**
social assistance officer **4212**
social assistance policy analyst **4164**
social assistance program officer – corrections **4155**
social casework consultant **4152**
social consultant **6481**
social development officer **4164**
social development programs chief – government services **0411**
social ecologist **4169**
social economist **4162**
social events co-ordinator **1226**
social historian **4169**
social issues researcher **4164**
social planning director – government services **0411**
social policy analyst **4164**
social policy consultant **4164**

social policy planning consultant **4164**
social policy researcher **4164**
social program officer **4164**
social programs administrator – government services **0411**
social programs assistant director – government services **0411**
social programs development chief – government services **0411**
social psychologist **4151**
social rehabilitation officer **4212**
social rehabilitation technician **4212**
social rehabilitation worker **4212**
social research assistant **4164**
social researcher **4164**
social science research assistant **4164**
social science researcher **4164**
social science statistician **2161**
social sciences professor – university **4121**
social sciences teacher – secondary school **4141**
social scientist **4169**
social secretary **1241**
social service general manager **0314**
social service program officer **4164**
social service worker **4212**
social services area director **0314**
social services assistant **4212**
social services centre administrator **0314**
social services centre director **0314**
social services centre manager **0314**
social services consultant **4164**
social services department chief **0314**
social services department head **0314**
social services director **0314**
social services director – government services **0411**
social services district director **0314**
social services local manager **0314**
social services manager **0314**
social services planner **4164**
social services planning consultant **4164**
social services planning manager – government services **0411**
social services policy, planning and research director – government services **0411**
social services program officers supervisor **4164**
social services program planner **4164**
social services provincial co-ordinator **0314**
social services regional administrator **0314**
social services regional director – government services **0411**
social services teacher – college **4131**
social services volunteer co-ordinator **4212**
social survey researcher (except statistician) **4164**
social survey researchers supervisor **4164**
social surveys director – government services **0411**
social welfare advisor **4164**
social welfare officer **4212**
social welfare research officer **4164**
social work co-ordinator **4152**
social work director **0314**
social work director – government services **0411**
social work officer **4152**
social work officer – military **4152**
social work professor – university **4121**
social work supervisor **4152**
social worker **4152**
social worker, groups **4152**
social workers supervisor **4152**
society columnist **5123**
society editor **5122**
society journalist **5123**
society reporter **5123**
socio-economic research and planning officer **4164**
sociolinguist **4169**
sociologist **4169**
sociology professor – university **4121**
sock boarder **9619**
sock foot knitter **9442**
sock knitter – textiles **9442**
sock looper **9442**
sod farmer **8251**
sod layer **8612**
sod laying labourer **8612**
soda dialyzer **9421**
soda fountain attendant **6641**
soda solution maker **9421**
soda solution mixer **9421**
sofa inspector – furniture manufacturing **9492**
soft drink driver-salesman/woman **7414**
soft drink mixer **9617**
soft drink powder mixer **9461**
soft drinks driver **7414**
soft rock miner **8231**
soft top trimmer – motor vehicle manufacturing **9482**
softball centre moulder **9423**
softcopy photogrammetrist **2255**
software architect **2173**
software design engineer **2173**
software design supervisor **2173**
software design verification engineer **2173**

software designer 2173
software developer 2174
software developer, e-commerce (electronic commerce) 2174
software developer, electronic commerce (e-commerce) 2174
software development manager 0213
software development programmer 2174
software engineer 2173
software installation technician 2282
software programmer 2174
software QA (quality assurance) analyst 2171
software QA (quality assurance) auditor 2171
software quality assurance (QA) analyst 2171
software sales representative 6221
software systems designer 2173
software systems integration engineer 2173
software technical architect 2173
software technical support analyst 2282
software test co-ordinator 2283
software tester 2283
software testing engineer 2173
software testing technician 2283
soil bacteriological technician 2221
soil bacteriological technologist 2221
soil bacteriologist 2121
soil chemist 2112
soil conservationist 2123
soil engineer 2131
soil fertility expert 2123
soil inspector – construction 2264
soil preparation contractor 8252
soil science technician – mining 2212
soil scientist 2115
soil technologist – civil engineering 2231
soil testing technologist 2231
soil testing technologist – civil engineering 2231
soil-testing service contractor 8252
solar heating equipment installer 7441
solar heating technician 7441
solder maker 9412
solderer 7265
solderer, furnace 7265
solderer, induction 7265
solderer, jewellery 9498
solderer-dipper 7265
soldering machine feeder 9612
soldering machine operator 7265
sole edge stainer-finisher – shoe manufacturing 9619
sole maker, rubber 9423
sole-flexing machine tender 9619
sole-moulding machine operator – footwear manufacturing 9517
sole-moulding machine tender – footwear manufacturing 9517
solenoid valve assembler 9498
sole-treading machine tender – rubber footwear manufacturing 9423
solicitor 4112
solicitor general 0011
solid fuel heater installer 7331
solid fuel heating installer 7331
solid fuel heating sales consultant 6221
solid waste disposal technician 2231
solid waste management engineer 2131
solid waste processing district manager 0912
solid waste processing manager 0912
solid waste processing operations planning manager 0912
solid waste program co-ordinator 4161
solid waste program manager 4161
solid-state physicist 2111
soloist 5133
solution maker, soda 9421
solution mixer – chemical processing 9421
solution mixer operator – plastic manufacturing 9422
solution operator – primary metal and mineral processing 9411
solvent mixer operator – plastic manufacturing 9422
solvent recovery tender – chemical processing 9421
sommelier 6453
sonar operator – military 6464
sonar technician 2241
sonar technician – military 2241
songwriter 5132
sonographer – medical 3216
sonography technologist 3216
soprano 5133
sorter – rubber products manufacturing 9615
sorter and baler, scrap metal – primary metal processing 9611
sorter, boot and shoe 9454
sorter, footwear – rubber products manufacturing 9615
sorter, fruit – agriculture 8611
sorter, garments – garment manufacturing 9619
sorter, leather 9454
sorter, mail 1461
sorter, recycle materials 9619
sorter, shoe parts stock 9619

sorter, upholstery parts **9619**
sorter, vegetable – agriculture **8611**
sorting and routing clerk **1461**
sorting machine feeder – food and beverage processing **9617**
sorting machine operator **1422**
sorting system operator, mail **1461**
sound cutter **5225**
sound designer **5243**
sound editor **5225**
sound effects editor **5225**
sound effects specialist **5225**
sound engineer **5225**
sound engineer (except professional engineers) **5225**
sound engineer assistant **5225**
sound insulator **7293**
sound keyer **5225**
sound librarian – audio-recording **5225**
sound mix engineer **5225**
sound mixer **5225**
sound operator **5225**
sound recorder **5225**
sound recording engineer **5225**
sound recording supervisor **5225**
sound recordist **5225**
sound technician **5225**
soundproof material installer **7293**
sound-recording and video-recording reproduction equipment operator **5225**
sound-recording equipment operator **5225**
sous-chef **6241**
soya bean crop worker **8431**
soya mill operator **9461**
soybean tester **9465**
space management consultant **5242**
space physicist **2111**
space programs manager – telecommunications **0131**
space reliability specialist **2146**
space vision technologist **2241**
spacecraft electronics engineer **2133**
spacecraft electronics engineer – hardware **2147**
spacecraft subassembly foreman/woman **9226**
spacer – pipeline construction **7611**
spacing saw operator – forestry **8422**
Spanish teacher – secondary school **4141**
spar assembler – aircraft assembly **9481**
spark plug assembler **9484**
spatial information systems engineer **2131**
speaker assembler **9483**
speaker, legislative body **0011**
special agent, railway **6465**
special assistant **1222**
special care aide – nursing **3413**
special care facility attendant **3413**
special care worker – medical **3413**
special delivery mail carrier **1462**
special diet cook **6242**
special education assistant **6472**
special education consultant **4166**
special education co-ordinator – education **4166**
special education programs director **0413**
special education services assistant director **0413**
special education teacher – elementary school **4142**
special education teacher – primary school **4142**
special education teacher – secondary school **4141**
special education technician **4212**
special effects assistant **5227**
special effects programmer **2174**
special effects technician **5226**
special endorsement clerk – insurance **1434**
special events co-ordinator **1226**
special events organizer **1226**
special events planner **1226**
special events program planner **1226**
special features editor **5122**
special glass cutter **9413**
special needs counsellor **4153**
special needs teacher – elementary school **4142**
special needs teacher – secondary school **4141**
special orders cook, hospital **6242**
special programs aide **6472**
special programs teacher – secondary school **4141**
special project manager, construction **0711**
special prosecutor **4112**
special services technician – telecommunications **7246**
specialist chef **6241**
specialist doctor **3111**
specialist in cardiology **3111**
specialist in cardiovascular and thoracic surgery **3111**
specialist in clinical immunology and allergy **3111**
specialist in community medicine **3111**
specialist in critical care medicine **3111**
specialist in emergency medicine **3111**
specialist in environmental medicine **3111**
specialist in epidemiology and community medicine **3111**
specialist in geriatric medicine **3111**

specialist in hematopathology **3111**
specialist in infectious diseases **3111**
specialist in infertility **3111**
specialist in internal medicine **3111**
specialist in medical oncology **3111**
specialist in nuclear medicine **3111**
specialist in physical medicine and rehabilitation **3111**
specialist in plastic surgery **3111**
specialist in preventive medicine **3111**
specialist in pulmonary disease **3111**
specialist in spinal injuries **3111**
specialist in sports medicine **3111**
specialist in vascular surgery **3111**
specialist physician **3111**
specialist, advertising **1122**
specialist, andragogy **4166**
specialist, audiology **3141**
specialist, beauty care **6482**
specialist, children **3111**
specialist, clinical occupational therapy **3143**
specialist, ear, nose and throat **3111**
specialist, ears **3111**
specialist, educational and vocational information **4166**
specialist, electronic data processing (EDP) **2172**
specialist, employment standards **4164**
specialist, eyes **3111**
specialist, hair removal **6482**
specialist, heart **3111**
specialist, HVAC (heating, ventilating and air conditioning) systems **2232**
specialist, leisure **4167**
specialist, lungs **3111**
specialist, nerves **3111**
specialist, nose **3111**
specialist, occupational medicine **3111**
specialist, oral medicine **3113**
specialist, program development – college **4166**
specialist, records management **1122**
specialist, recreation **4167**
specialist, rehabilitation **3111**
specialist, remote sensing (RS) application **2255**
specialist, RS (remote sensing) application **2255**
specialist, scalp treatment **6482**
specialist, school adjustment **4166**
specialist, skin **3111**
specialist, standards **1122**
specialist, telecommunications hardware **2147**
specialist, telecommunications software **2173**
specialist, throat **3111**
specialist, wax depilation **6482**
specialist, weather service **2213**
specialized cleaner **6662**
specialized painter and decorator **7294**
specialty chemicals production supervisor **9212**
specialty food buyer **6233**
specialty foods baker **6252**
specialty foods baker – retail **6252**
specialty foods chef **6241**
specialty rewinder operator – papermaking **9433**
specifications writer **5121**
specifications writer (except construction) **5121**
specifications writer, construction **2231**
spectacle frame fitter **3231**
spectacle frame polisher **9517**
spectroscopic technologist **2211**
spectroscopist **2211**
spectroscopist, NMR (nuclear magnetic resonance) **2112**
spectroscopist, nuclear magnetic resonance (NMR) **2112**
speech aide **3235**
speech and hearing therapist **3141**
speech correctionist – medical **3235**
speech language assistant **3235**
speech pathologist **3141**
speech technician **3235**
speech therapist **3141**
speech therapist aide **3235**
speech therapist assistant **3235**
speech therapy aide **3235**
speech therapy assistant **3235**
speech writer **5121**
speech-language clinician **3141**
speech-language pathologist **3141**
speech-language pathologist clinician **3141**
speech-language pathologist researcher **3141**
speedometer repairer **7445**
spice fumigator – food and beverage processing **9461**
spice miller **9461**
spice mixer **9461**
spike installer, golf shoes **9619**
spike machine operator – railway **7432**
spike puller machine operator – railway **7432**
spike-driver operator – railway **7432**
spiker operator – railway **7432**
spiking machine operator – railway **7432**
spinal injury specialist **3111**
spindle carver operator – woodworking **9513**
spinner – food and beverage processing **9461**
spinner – textile manufacturing **9441**
spinner, hand **5244**

spinner, metal **9514**
spinneret pack preparer – chemical processing **9421**
spinning fixer **7317**
spinning frame fixer – textile manufacturing **7317**
spinning frame tender – textile manufacturing **9441**
spinning machine operator – textile manufacturing **9441**
spinning machine tender – textile manufacturing **9441**
spinning operator – textile manufacturing **9441**
spinning room foreman/woman – textiles **9216**
spinning supervisor – textiles **9216**
spinning technician – textile manufacturing **7317**
spiral bevel-gear cutting machine set-up operator **9511**
spiral bevel-gear generator set-up operator **9511**
spiral binding machine operator – printing **9473**
spiral binding worker – printing **9473**
spiral conveyor attendant **9411**
spiral gear-generator operator **9511**
spiral weaving machine operator **9516**
spiral wound gasket maker – rubber products manufacturing **9423**
splash line tender **9421**
splicer – rubber products manufacturing **9423**
splicer – telecommunications **7245**
splicer helper – telecommunications **7612**
splicer technician – telecommunications **7245**
splicer technician – telephone **7245**
splicer, cables – electric power systems **7244**
splicer, films – photographic processing **9474**
splicer, rubber **9423**
splicing machine tender – rubber products manufacturing **9423**
splicing machine tender – textile manufacturing **9441**
splitter – hide and pelt processing **9453**
splitter – sawmill **9431**
splitter – woodworking **9513**
splitter operator – sawmill **9431**
splitter tender, stone slabs **9414**
splitter, fish – fish processing **9463**
splitter, machine – sawmill **9431**
splitting machine operator cork **9513**
splitting machine tender – rubber products manufacturing **9423**
splitting machine tender – shoe manufacturing **9619**
spoked wheel assembler **9498**
spokesperson **5124**
sponge and dough mixer – food and beverage processing **9461**
sponge rubber goods inspector **9423**
sponge-range operator – textile manufacturing **9443**
spontaneous art teacher – therapy **3144**
spool carrier – textile processing **9616**
spool hauler – textile processing **9616**
spool winder **9516**
spool winder – textile manufacturing **9441**
spooler – metal products manufacturing **9516**
spooler – textile manufacturing **9441**
spooler operator, automatic – textile manufacturing **9441**
spooler, latex threads – rubber products manufacturing **9615**
spooler, wires – metal products manufacturing **9612**
spooler-twister operator – rubber products manufacturing **9423**
spooling machine tender – textile manufacturing **9441**
sport association director **0513**
sport attendant **6671**
sport desk editor **5122**
sport federation director general **0513**
sport federation general director **0513**
sport governing agency executive director **0513**
sport governing body executive director **0513**
sport program administrative co-ordinator **0513**
sporting goods filler **9619**
sporting goods grip-wrapping machine tender **9498**
sporting goods manufacturing supervisor **9227**
sporting goods rental-shop attendant **6421**
sporting goods repairer **7445**
sporting goods salesperson – retail **6421**
sporting goods store manager **0621**
sports activities co-ordinator **4167**
sports administration director – government **0513**
sports agent **5124**
sports analyst **4167**
sports and leisure attendant **6671**
sports and leisure consultant **4167**
sports and leisure counsellor **4167**
sports and leisure director **0513**
sports and leisure leader **5254**
sports and recreation attendant **6671**
sports and recreation consultant **4167**
sports and recreation counsellor **4167**
sports and recreation director **0513**
sports and recreation leader **5254**

sports announcer **5231**
sports ball inspector and repairer **9498**
sports ball moulder **9517**
sports ball moulder press operator **9517**
sports cartoonist **5241**
sports centre attendant **6671**
sports coach **5252**
sports columnist **5123**
sports commentator **5231**
sports competition judge **5253**
sports consultant **4167**
sports co-ordinator **4167**
sports counsellor **4167**
sports director **0513**
sports director, leisure centre **0513**
sports director, recreation centre **0513**
sports editor **5122**
sports equipment attendant **6671**
sports equipment custodian **6671**
sports equipment repairer **7445**
sports facility attendant **6671**
sports facility manager **0721**
sports federation director **0513**
sports helmet assembler **9498**
sports instructor **5254**
sports judge **5253**
sports leader **5254**
sports linesman/woman **5253**
sports medicine physician **3111**
sports medicine specialist **3111**
sports official **5253**
sports policy analyst **4167**
sports program co-ordinator – broadcasting **5226**
sports program co-ordinator – sports and recreation **4167**
sports programs co-ordinator **4167**
sports programs director **0513**
sports programs supervisor **4167**
sports projects officer **4167**
sports psychologist **4151**
sports referee **5253**
sports reporter **5123**
sports scout **5252**
sports supervisor **4167**
sports utility vehicle (SUV) assembler **9482**
sports writer – journalism **5123**
sports writer – novels and books **5121**
sports, fitness or recreation policy analyst **4167**
sports, recreation and leisure supervisor **4167**
sports, recreational and leisure programs supervisor **4167**
sportscaster **5231**
sports-service sports programs director **0513**
spot resistance welder **7265**
spot welder **7265**
spotlight operator **5227**
spotter – laundry and dry cleaning **6681**
spotter, negatives – film processing **9474**
spray booth cleaner **9619**
spray chamber supervisor – rubber and plastic products manufacturing **9214**
spray dryer tender – chemical processing **9421**
spray foam machine operator – electrical equipment manufacturing **9487**
spray gun repairer **7445**
spray paint machine operator **9496**
spray paint machine tender **9496**
spray paint operator **9496**
spray painter **9496**
spray painter – motor vehicle manufacturing **9496**
spray painter – production **9496**
spray painter helper **9619**
spray painter, bench **9496**
spray painter, large surfaces **9496**
spray painter, metal products **9496**
spray painter, pipes **9496**
spray painter, products **9496**
spray painter, signs **9496**
spray pilot **2271**
spray stainer – furniture finishing and refinishing **9494**
spray stainer – production **9496**
spray truck helper **7611**
spray-coating machine tender – textile manufacturing **9443**
spray-coating machine tender, hardboard **9496**
sprayer – logging and forestry **8616**
sprayer tender, permanent press – garment and fabric products manufacturing **9517**
sprayer, ceramic **9496**
sprayer, gel coat operator – plastic manufacturing **9422**
sprayer, hand – greenhouse **8432**
sprayer, leather goods **9496**
sprayer, leather or suede – laundry and dry cleaning **6681**
sprayer, rough shellac – furniture finishing and refinishing **9494**
sprayer, shellac – furniture finishing and refinishing **9494**
sprayer, toes and heels – shoe manufacturing **9619**
sprayer, trees **8612**

spraying machine tender – textile manufacturing **9443**
sprayman/woman, finished enamel **9496**
spreader box tender **7611**
spreader machine tender – rubber products manufacturing **9423**
spreader operator – heavy equipment **7421**
spreader operator – rubber products manufacturing **9423**
spreader operator helper – plastic products manufacturing **9615**
spreader tender – rubber products manufacturing **9423**
spreader, machine – garment manufacturing **9619**
spring assembler – motor vehicle manufacturing **9482**
spring assembler, machine **9516**
spring assembly machine operator **9516**
spring coiler **9516**
spring inserter – furniture manufacturing **9619**
spring inspector **9516**
spring installer **7443**
spring machine operator **9516**
spring machine set-up operator **9516**
spring tester **9516**
spring winder **9516**
spring-coiling machine operator **9516**
springer – furniture assembly **9619**
spring-making machine operator **9516**
spring-making machine set-up operator **9516**
spring-winding machine operator **9516**
sprinkler and fire protection installer **7252**
sprinkler fitter **7252**
sprinkler fitters foreman/woman **7213**
sprinkler system contractor **7213**
sprinkler system fitter **7252**
sprinkler system installer **7252**
sprinkler system installer (non-construction) **7252**
sprinkler system installer apprentice **7252**
sprinkler system installer foreman/woman **7213**
sprinkler system installers supervisor **7213**
sprinkler systems contractor **7213**
sprinkling truck driver – public works **7422**
sprinter **5251**
spun yarn doubler – textile manufacturing **9441**
spun yarn linker **9616**
spun yarn preparation supervisor – textile processing **9216**
spun yarn storekeeper **9616**
spun yarn weigher **9616**
squeak, rattle and leak locator **7612**
squeegee splicer, rubber **9423**
squeezer machine operator – foundry **9412**
squeezer moulder – foundry **9412**
squeezer tender – woodworking **9513**
stabber **7611**
stabber – pipeline construction **7611**
stable assistant **8431**
stable boss **8253**
stable hand **8431**
stable worker **8431**
stableman/woman **8431**
stack dust leach operator – zinc casting **9411**
stacker – material handling **7452**
stacker – printing **9619**
stacker – wood processing **9614**
stacker operator – heavy equipment **7421**
stacker operator – material handling **7452**
stacking machine operator – electrical equipment manufacturing **9487**
stacking machine operator – material handling **7452**
stacking machine tender – material handling **7452**
stadium groundskeeper **8432**
stadium manager **0721**
staff adjuster – insurance **1233**
staff announcer **5231**
staff assistant, education **6472**
staff counsel **4112**
staff inspector – police **0641**
staff lawyer **4112**
staff nurse **3152**
staff officer – military **0641**
staff relations administrator **1121**
staff relations chief **0112**
staff relations manager **0112**
staff relations officer **1121**
staff sergeant – police **6261**
staff solicitor **4112**
staff superintendent – police **0641**
staff toxicologist **2121**
staff training and development chief **0112**
staff training and development manager **0112**
staff training and development officer **1121**
staff training and development supervisor **1121**
staff training co-ordinator **0112**
staff training officer – education **4131**
staff training officer – human resources **1121**
staff writer – newspaper **5123**
staffing adviser **1223**
staffing analyst **1223**
staffing assistant **1442**
staffing chief **0112**
staffing clerk **1442**

staffing co-ordinator **1223**
staffing officer **1223**
stage assistant director **5226**
stage best boy **5227**
stage carpenter **7271**
stage director – performing arts **5131**
stage electrician **5226**
stage manager **5226**
stage musical director **5132**
stage producer **5131**
stage production worker **5227**
stage property person **5227**
stage scenery designer **5243**
stage technician **5226**
stagehand **5227**
stager – printing **9472**
staging assistant **5227**
staging supervisor **5226**
stain glass installers foreman/woman **7219**
stain remover **6681**
stained glass artist **5244**
stained glass designer **5244**
stained glass glazier **7292**
stained glass glaziers foreman/woman **7219**
stained glass painter **5244**
stained glass production worker **9413**
stainer, furniture **9494**
stainer, products **9496**
stainer, smoking-pipe **9496**
stainer-finisher, sole edges – shoe manufacturing **9619**
stair builder-carpenter **7271**
stair builders foreman/woman **7215**
stairway carpenter **7271**
stake grader – wood processing **9436**
stakeman/woman – land surveying **7612**
staker – detailer **7612**
staking machine tender **9517**
stamp dealer **0621**
stamp filler **9619**
stamp pad maker **9517**
stamp-cancelling machine tender – postal services **1461**
stampede performer **5251**
stampede racer **5251**
stamper – primary metal processing **9611**
stamper and labeller **9619**
stamper, blocking press – printing **9473**
stamper, design and lettering – printing **9473**
stamper, gold-leaf – printing **9473**
stamper, rings **9498**
stamping die finisher **7232**
stamping die maker, bench **7232**
stamping press operator – printing **9473**
standardbred judge – racetrack **5253**
standardbred pacer **5251**
standards chemist **2112**
standards co-ordinator **1122**
standards specialist **1122**
standards writer **5121**
standing committee officer **4168**
standpipe attendant, coke oven **9611**
stand-up comedian **5135**
staple cutter – glass products manufacturing **9413**
staple cutter – textile manufacturing **9441**
staple machine set-up operator **9516**
staple processing machine tender – textile manufacturing **9441**
stapling machine tender **9517**
stapling machine tender, box ends **9517**
starch centrifuge tender **9617**
starch converter **9461**
starch factory labourer – food and beverage processing **9617**
starch maker – food and beverage processing **9461**
starch press tender **9461**
starch presser, corn products **9461**
starch separator operator **9461**
starch tester – food and beverage processing **9465**
starch washer – food and beverage processing **9461**
starter, golf course **6671**
starter, harness racing **5253**
starter, horse racing **5253**
station agent – railway **6434**
station agent – railway transport **7221**
station agent, airline **6433**
station attendant, air transport **7437**
station duty officer – police **6261**
station manager, broadcasting **0512**
station manager, egg grading **8252**
station officer – police **6261**
station operator – electrical power systems **7352**
station services agent – airline **6433**
stationary engine oiler **7612**
stationary engineer **7351**
stationary engineer – military **7351**
stationary engineer "A" and refrigeration plant operator **7351**
stationary engineer "B" and refrigeration plant operator **7351**
stationary engineer apprentice **7351**
stationary engineer foreman/woman **9212**

stationary engineer helper **9613**
stationary engineer, fifth class **7351**
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stationery store manager **0621**
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statistical analyst **2161**
statistical assistant **1454**
statistical clerk **1454**
statistical clerks supervisor **1213**
statistical consultant **2161**
statistical department director **0212**
statistical officer **2161**
statistical service manager **0212**
statistical technician **2161**
statistical typist **1411**
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stave inspector, wood **9493**
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stave machine operator – woodworking **9513**
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steam engineer leader **9212**
steam engineers foreman/woman **9212**
steam finisher – laundry and dry cleaning **6682**
steam fitter's helper – construction **7611**
steam hammer operator – metal forging **9512**
steam heating installer **7252**
steam kettle operator – food and beverage processing **9461**
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steam oven operator – food and beverage processing **9461**
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steam plant engineers foreman/woman **9212**
steam plant foreman/woman **9212**
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steam plant operator **7351**
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steam sponger – textile manufacturing **9443**
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steam table operator – food and beverage processing **9461**
steam tank operator – stone products **9414**
steam tunnel operator – laundry and dry cleaning **6682**
steam turbine operator – electrical power systems **7352**
steam turbine repairer **7311**
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steamfitters supervisor **7213**
steam-pressure cylinder tender – clay products **9414**
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steel erector helper **7611**
steel fabricator **7263**
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steel form setting worker **7611**
steel forms setter helper **7611**

steel frame draftsman/woman **2253**
steel frame draftsperson **2253**
steel frame erectors foreman/woman **7214**
steel heater operator **9231**
steel inspector – primary metal processing **9415**
steel mill control officer **1473**
steel mill manager **0911**
steel mill shift co-ordinator **9211**
steel plant labourer **9611**
steel plate caulker – shipbuilding **9486**
steel plate shaper – ships **7263**
steel pourer **9411**
steel product sales representative **6221**
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steel rougher **9411**
steel sheet inspector – primary metal processing **9415**
steel shot machine operator **9512**
steel spar operator **8241**
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steel structure forming, shaping and erecting contractor **7214**
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steel treater – primary metal processing **9411**
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steel-degasser process operator **9231**
steel-rule die maker **7232**
steelwork erector – underground mining **8411**
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stencil preparer **9472**
stencil silk-screen printing machine operator **9471**
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stenotype operator **1244**
stenotypist-secretary **1241**
step and repeat camera operator **9472**
stereo equipment store manager **0621**
stereo repair technician **2242**
stereo tape editor **5225**
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stereotypists and electroplaters foreman/woman **7218**
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sterile supply room attendant **3414**
sterilizer machine operator – food and beverage processing **9461**
sterilizer operator – food and beverage processing **9461**
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steward, presiding – racetrack **5253**
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still operator – brewery **9461**
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stock clerks supervisor **1215**
stock clerks supervisor – retail **6211**
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stock control supervisor **1215**
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stock grader – furniture manufacturing **9492**
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stock handler – food store **6622**
stock helper **7452**
stock keeper **1472**
stock lay-up man/woman – rubber products manufacturing **9615**
stock market reporter **5123**
stock mixer – textile manufacturing **9441**
stock preparation foreman/woman – rubber manufacturing **9214**
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stock supervisor – retail **6211**
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stockyard attendant **8431**
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stone duster – underground mining **8614**
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stone inspector – mineral products processing **9415**
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stone polisher, machine **9414**
stone processing foreman/woman **9211**
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stone products machine operator **9414**
stone products manufacturing foreman/woman **9211**
stone products moulder **9414**
stone products polisher **9414**
stone sandblaster **9414**
stone saw operator **9414**
stone saw setter **7445**
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stone setter **7281**
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stonecutter – jewellery **7344**
stonecutter – stone products **9414**
stonecutter, hand **9414**
stonecutter, monuments – stone products **9414**
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stonework drill press operator **9414**
stonework engraver – stone products **9414**
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stonework sandblast operator **9414**
stonework saw operator **9414**
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stope miner **8231**
stopper grinder, glass **9413**
storage battery assembler **9487**
storage battery assembly line operator **9487**
storage battery charger – electrical equipment manufacturing **9487**
storage battery repairer **7333**
storage battery salvager **9485**
storage battery tester **9487**
storage battery tube filler – electrical equipment manufacturing **9487**
storage facility rental clerk **6421**
storage foreman/woman **7217**
storage man/woman **7452**
storage purchasing co-ordinator **1225**

storage services sales representative **6411**
storage worker – ice processing **9619**
storage worker – material handling **7452**
store clerk **6421**
store detective **6465**
store display designer **5243**
store manager – retail **0621**
storekeeper **1472**
storekeeper, drilling rig **1472**
storekeeper, ship **1472**
storeman/woman **1472**
story teller **5135**
storyboard artist **5241**
storyboarder **5121**
stove refinisher **9496**
stove repairer **7332**
stove repairman/woman electric **7332**
stove serviceman/woman electric **7332**
stove varnisher **9496**
stove-bottom worker **9613**
stove-carriage worker **9613**
stowage clerk **6434**
stower **7451**
straddle carrier operator **7452**
straddle truck operator **7452**
straight bevel-gear cutting machine set-up operator **9511**
straight bevel-gear generator set-up operator **9511**
straight line press setter – metal fabrication **9514**
straight man **5135**
straightener hand – metal fabrication **9514**
straightening feeder operator **9411**
straightening machine operator **9411**
straightening press operator – metal fabrication **9514**
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stranding machine operator **9516**
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strapping machine operator – glass manufacturing **9413**
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street flusher operator – public works **7422**
street musician **5133**
street paver operator **7421**
street paver, asphalt operator **7421**
street photographer **5221**
street railway and subway operators supervisor **7222**
street railway operators supervisor **7222**
street sprinkler operator – public works **7422**
street sweeper operator – public works **7422**
street vendor **6623**
streetcar and subway car mechanic **7314**
streetcar and subway operators supervisor **7222**
streetcar cleaner **6662**
streetcar conductor **7412**
streetcar mechanic **7314**
streetcar operator **7412**
streetcar operators supervisor **7222**
streetlight repairer **7244**
streetlight repairer – electric power systems **7244**
streetlight serviceman/woman – electric power systems **7244**
streetlight servicer – electric power systems **7244**
streetworker – social services **4212**
stress engineer – aerospace **2146**
stretcher and tester, metal cables **9516**
stretcher and tester, wire cables **9516**
stretcher drier – laundry and dry cleaning **6682**
stretcher-leveller operator – primary metal processing **9411**
stretching machine operator – hide and pelt processing **9453**
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strip mine blasting foreman/woman **7217**
strip-cutting and blending operator – tobacco processing **9464**
strip-cutting machine tender – tobacco processing **9464**
stripper – printing **9472**
stripper, furniture **9494**
stripper, moulded products – rubber and plastic products manufacturing **9615**
stripper, moulds – concrete products manufacturing **9611**

stripper, moulds – plastic manufacturing **9495**
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stripper-assembler, film – printing **9472**
stripper-image assembler – printing **9472**
stripper-layout specialist – printing **9472**
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stripping machine tender – leather products manufacturing **9452**
stripping machine tender – tobacco processing **9464**
stripping shovel oiler **7443**
stripping shovel operator **7421**
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strip-roll-forming machine tender – metal fabrication **9514**
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structural assembler, bench – aircraft assembly **9481**
structural design engineer **2131**
structural design technologist **2231**
structural draftsperson **2253**
structural engineer **2131**
structural engineer, aerospace **2146**
structural engineer, civil **2131**
structural engineering technician **2231**
structural geologist **2113**
structural glass glazier **7292**
structural glass installer **7292**
structural hydraulic jack erector **7421**
structural investigator **2231**
structural iron erector **7264**
structural iron worker **7264**
structural ironwork inspector **2264**
structural metal and platework fabricator **7263**
structural metal and platework fabricator apprentice **7263**
structural metal and platework fitter **7263**
structural metal and platework fitter-welder **7263**
structural metal and platework layout developer **7263**
structural metal and platework layout marker **7263**
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structural metal erector **7264**
structural metal fabricator **7263**
structural metal fitter **7263**
structural metal fitter helper **9612**
structural metal fitter-assembler **7263**
structural metal layout marker **7263**
structural metal worker **7263**
structural plate fitter helper – construction **7611**
structural repair technician **7315**
structural steel and platework fitter **7263**
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structural steel detailer **2253**
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structural steel draftsperson **2253**
structural steel erecting contractor **7214**
structural steel erector **7264**
structural steel erector helper **7611**
structural steel fabricator **7263**
structural steel fitter **7263**
structural steel fitter helper **9612**
structural steel inspector **2264**
structural steel plate shaper **7263**
structural steelwork and platework fitter **7263**
structure seat installer **7441**
structure technician, aircraft **7315**
structures aerospace engineer **2146**
structures mechanic **7315**
structures technician (drywalling) – military **7284**
stucco lather **7284**
stucco plasterer **7284**
stucco plasterers foreman/woman **7219**
student activities dean **0312**
student affairs and employment officer **4143**
student affairs director **0312**
student aid officer **1221**
student assistance officer **1221**
student cardiology technologist **3217**
student counsellor – school **4143**
student dental mechanic **3221**
student denturist **3221**
student employment services co-ordinator **4143**
student loans officer **1232**
student medical sonographer **3216**
student optician **3231**
student placement officer **1223**
student residence cleaner **6661**
student residence manager **0632**
student services counsellor **4143**
student sonographer – medical **3216**
studio administrator **5226**
studio camera operator **5222**
studio carpenter **7271**
studio electrician **5226**
studio manager **5226**
studio manager – broadcasting **5226**
studio operator, audio recording **5225**
studio-image-processing system operator **9472**
stuffing machine operator **9517**
stuffing machine tender **9517**

stuffing machine tender – toys **9517**

stummel trimmer – woodworking **9513**

stummel turner – woodworking **9513**

stunner and shackler – meat packing **9617**

stunt co-ordinator **5226**

stunt rider **5232**

stuntman/woman **5232**

stylist, hair **6271**

subassembler – aircraft assembly **9481**

subassembler – furniture manufacturing **9492**

subassembler – motor vehicle manufacturing **9482**

subassembler, electrical control panels **9485**

subassembler, electronic equipment **9483**

subassembler, pianos **9498**

subdivision control officer **6463**

sub-editor **5122**

subject consultant – education **4166**

submerged arc welder **7265**

submerged arc welding machine operator **7265**

sub-post office clerk **1461**

subscription agent – retail **6623**

subscription clerk **1441**

subscription sales team leader **6211**

subscription solicitor **6623**

subsea equipment engineer, offshore drilling rig **2145**

sub-sheriff **6461**

substance abuse worker **4212**

substation electrician – electrical power system **7243**

substation inspector – electrical power systems **7352**

substation operator **7352**

substation operator – electrical power systems **7352**

substation operator helper **9613**

substitute high school teacher **4141**

substitute teacher – elementary school **4142**

substitute teacher – secondary school **4141**

subway and street railway operators supervisor **7222**

subway and streetcar operators supervisor **7222**

subway car cleaner **6662**

subway car mechanic **7314**

subway controller **7222**

subway operators foreman/woman **7222**

subway operators supervisor **7222**

subway scheduler **1476**

subway system traffic controller **7222**

subway traffic controller **7222**

subway train operator **7412**

succession duty auditor – taxation **1228**

suede cleaner – laundry and dry cleaning **6681**

sugar beet farmer **8251**

sugar boiler **9461**

sugar boiler helper **9617**

sugar bush worker **8431**

sugar filter house foreman/woman **9213**

sugar grinder **9617**

sugar processing workers foreman/woman **9213**

sugar refining foreman/woman **9213**

sugar tester **9465**

sugar-beet farm worker **8431**

sugarbush operation foreman/woman **8253**

sugar-processing machine operator **9461**

suggestion award program clerk **1441**

sulky driver **5251**

sulphonator **9421**

sulphur control operator – zinc pressure leach **9411**

sulphuric acid plant operator **9232**

sulphuric acid plant operator helper **9613**

suntan studio attendant **6683**

super pan 9 croupier **6443**

superannuation clerk – financial sector **1434**

superannuation clerk – government **1432**

supercalender helper – pulp and paper **9614**

supercalender operator – pulp and paper **9433**

supercargo **1471**

super-draft tender **9441**

superintendent – forestry **2122**

superintendent – police **0641**

superintendent of academic affairs **0313**

superintendent of education programs **0313**

superintendent of education programs in public schools **0313**

superintendent of educational services **0313**

superintendent of elementary education **0313**

superintendent of elementary schools **0313**

superintendent of financial institutions **0012**

superintendent of operations – schools **0313**

superintendent of operations, maintenance **0721**

superintendent of professional development – schools **0313**

superintendent of secondary schools **0313**

superintendent of services – hotel **6435**

superintendent of special education **0313**

superintendent of student services **0313**

superintendent of transportation **0713**

superintendent, airline **0713**

superintendent, bridge construction **0711**

superintendent, building **6663**

superintendent, construction **0711**

superintendent, engineering service **0211**
superintendent, experimental farm **0212**
superintendent, factory **0911**
superintendent, greens **2225**
superintendent, historical park **0511**
superintendent, mail processing plant **0132**
superintendent, maintenance **0721**
superintendent, maintenance and service **0721**
superintendent, maintenance operations **0721**
superintendent, marine operations **0713**
superintendent, mechanical services **0721**
superintendent, mill **0911**
superintendent, mine **0811**
superintendent, oil and gas drilling **0811**
superintendent, pipeline construction **0711**
superintendent, plant maintenance **0721**
superintendent, production **0911**
superintendent, race track maintenance **7219**
superintendent, rail operations **0713**
superintendent, refinery **0911**
superintendent, regional schools **0313**
superintendent, schools **0313**
superintendent, underground mine **0811**
superintendent, water treatment plant **9212**
superintendent, woods **0811**
superior court justice **4111**
supermarket butcher **6251**
supermarket cashier **6611**
supermarket clerk **6622**
supermarket department supervisor **6211**
supermarket jigger operator **7452**
supermarket manager **0621**
supermarket meat cutter **6251**
supermarket produce clerk **6622**
supervised access worker **4212**
supervising chef **6241**
supervising engineer – petrography **2144**
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supervisor – electronic equipment manufacturing **9222**
supervisor – meat packing **9213**
supervisor – retail **6211**
supervisor – vegetable packing **9213**
supervisor ambulance attendants **3234**
supervisor bricklaying **7219**
supervisor cement finishing **7219**
supervisor of accounting **1212**
supervisor, abattoir **9213**
supervisor, accountants **1111**
supervisor, accounting clerks **1212**
supervisor, accounts **1212**
supervisor, advertising art **5241**
supervisor, advertising clerks **1213**
supervisor, aerodrome **1215**
supervisor, agricultural products inspection **2222**
supervisor, air pilots and flight engineers **2271**
supervisor, air transport operations **1215**
supervisor, air transport operations support **1215**
supervisor, aircraft assembly **9226**
supervisor, aircraft maintenance – aircraft mechanical systems **7216**
supervisor, aircraft maintenance engineers (AME) **7216**
supervisor, aircraft maintenance mechanical systems **7216**
supervisor, aircraft maintenance service **7216**
supervisor, aircraft mechanical systems maintenance service **7216**
supervisor, aircraft servicing **7216**
supervisor, airline load control **1215**
supervisor, airline sales and service agents **6216**
supervisor, alterations – clothing manufacturing **9225**
supervisor, ambulance services **3234**
supervisor, animal attendants **6483**
supervisor, animal control **6463**
supervisor, apparel and furnishings service workers **6214**
supervisor, appliance repair shop **7216**
supervisor, architectural and engineering technologists and technicians **2231**
supervisor, art therapists **3144**
supervisor, assemblers – fabric, fur and leather products manufacturing **9225**
supervisor, assemblers – rubber and plastic products manufacturing **9214**
supervisor, assembly – motor vehicle manufacturing **9221**
supervisor, assembly and test – electronics manufacturing **9222**
supervisor, assembly and test electronics equipment manufacturing **9222**
supervisor, assessment clerks **1212**
supervisor, athletic club attendants **6216**
supervisor, attendance records **1211**
supervisor, auditors **1111**
supervisor, automotive body repair shop **7216**
supervisor, automotive body shop **7216**
supervisor, automotive repair and service shop **7216**
supervisor, automotive service mechanics **7216**
supervisor, automotive testing shop **7216**
supervisor, baggage porters **6216**
supervisor, bakery plant **9213**

supervisor, bank clerks **1212**
supervisor, bartenders **6452**
supervisor, bicycle assembly **9227**
supervisor, bicycle repair shop **7219**
supervisor, billiard parlour **6216**
supervisor, billing **1212**
supervisor, binders – printing **7218**
supervisor, bindery – printing **7218**
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supervisor, body shop **7216**
supervisor, body shop – motor vehicle manufacturing **9221**
supervisor, boilermakers **7214**
supervisor, bookkeepers and accounting clerks **1212**
supervisor, bottling **9213**
supervisor, brewery **9213**
supervisor, bricklayer **7219**
supervisor, building insulation **7219**
supervisor, bus drivers **7222**
supervisor, buyers **6233**
supervisor, by-law enforcement officers **6463**
supervisor, cable installation **7212**
supervisor, cable maintenance and repair **7212**
supervisor, cablevision technicians **7212**
supervisor, call centre agents **1213**
supervisor, camera repair shop **7219**
supervisor, card room – textiles **9216**
supervisor, cardiology **3217**
supervisor, cardiovascular perfusion **3214**
supervisor, carpenters **7215**
supervisor, carpentry **7215**
supervisor, carwash **6215**
supervisor, cashiers – retail **6211**
supervisor, cement manufacturing **9211**
supervisor, cement processing **9211**
supervisor, central supply room – hospital **3414**
supervisor, chambermaids **6215**
supervisor, chassis assembly – motor vehicle manufacturing **9221**
supervisor, chauffeurs **7222**
supervisor, chemical processing **9212**
supervisor, claims adjusters **1212**
supervisor, clay, glass and stone furnace and kiln operators **9211**
supervisor, cleaners **6215**
supervisor, cleaning and maintenance **6215**
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supervisor, clock and watch assembly **9227**
supervisor, clock and watch assembly repairers **9227**
supervisor, clubhouse attendants **6216**
supervisor, collection clerks **1212**
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supervisor, communications equipment assembly – electronic equipment manufacturing **9222**
supervisor, communications equipment testing – electronic equipment manufacturing **9222**
supervisor, communications equipment testing – electronics manufacturing **9222**
supervisor, composing room – printing **7218**
supervisor, compositors – printing **7218**
supervisor, computer operations **2281**
supervisor, computer operators **2281**
supervisor, construction – underground mining and quarrying **8221**
supervisor, construction electricians **7212**
supervisor, construction inspectors **2264**
supervisor, construction painters **7219**
supervisor, contract clerks **1211**
supervisor, copyright clearance **1213**
supervisor, correctional officers **6462**
supervisor, correspondence clerks **1213**
supervisor, cost accounting **1111**
supervisor, counselling programs **4153**
supervisor, court reporters **1211**
supervisor, credit clerks **1212**
supervisor, crew schedules **1215**
supervisor, crushing and grinding – primary metal and mineral products **9211**
supervisor, curing – rubber products manufacturing **9214**
supervisor, customer service – representatives financial services **1212**
supervisor, customer service clerks (except financial institutions) **1213**
supervisor, customs brokerage clerks **1212**
supervisor, customs clerks **1211**
supervisor, customs inspection **1228**
supervisor, cutters – fabric, fur and leather products manufacturing **9225**
supervisor, dance therapists **3144**
supervisor, data control **1211**
supervisor, data entry clerks **1211**
supervisor, database management – computer systems **2172**
supervisor, delivery drivers **7222**
supervisor, delivery persons **6211**
supervisor, dental technician **3223**
supervisor, desktop publishing operators **1211**
supervisor, desktop publishing system **1211**
supervisor, diagnostic ultrasound **3216**

supervisor, die casting **9211**
supervisor, dispatchers **1215**
supervisor, display design **5243**
supervisor, distribution **1215**
supervisor, door-to-door salespersons – retail **6211**
supervisor, drafting **2253**
supervisor, drafting office **2253**
supervisor, dressmakers **9225**
supervisor, dressmaking department **9225**
supervisor, driver-salesmen/women **7222**
supervisor, dry cell assemblers **9223**
supervisor, dry cleaners **6214**
supervisor, dry cleaning **6214**
supervisor, drywall installers **7219**
supervisor, dye room – textiles processing **9216**
supervisor, dyehouse – textile processing **9216**
supervisor, dyeing – textiles **9216**
supervisor, economic research group **4162**
supervisor, EDP (electronic data-processing) unit **1211**
supervisor, education policy **4166**
supervisor, electrical appliance assemblers **9223**
supervisor, electrical appliance assembly **9223**
supervisor, electrical appliance manufacturing **9223**
supervisor, electrical appliance repair shop **7216**
supervisor, electrical equipment manufacturing **9223**
supervisor, electrical installation **7212**
supervisor, electrical load testers **7212**
supervisor, electrical power inspectors and testers **7212**
supervisor, electrical wiring inspectors **7212**
supervisor, electricians **7212**
supervisor, electronic assembly **9222**
supervisor, electronic data processing (EDP) unit **1211**
supervisor, electronic equipment fabricating and assembling **9222**
supervisor, electronic equipment installation and repair **2242**
supervisor, electronic service technician **2242**
supervisor, electronics manufacturing **9222**
supervisor, electroplating **9226**
supervisor, elevator maintenance service **7216**
supervisor, employment counsellors **4213**
supervisor, engine assembly (except aircraft) **9226**
supervisor, engine dress – motor vehicle manufacturing **9221**
supervisor, environmental program development **4161**
supervisor, excise tax officers **1228**
supervisor, export traffic **1215**
supervisor, exterminating service **7219**
supervisor, extruding – rubber and plastic products manufacturing **9214**
supervisor, extrusion – rubber and plastic products manufacturing **9214**
supervisor, fabric products embroidery **9225**
supervisor, factory electricians **7212**
supervisor, filing clerks **1211**
supervisor, filing service **1211**
supervisor, film developers **7218**
supervisor, film printing **7218**
supervisor, film processing **7218**
supervisor, filmsetter operators **7218**
supervisor, final assembly – motor vehicle manufacturing **9221**
supervisor, final-assembly and testing – electronic equipment manufacturing **9222**
supervisor, financial accounting **1212**
supervisor, fingerprint classifier **1211**
supervisor, finishing – plastic products manufacturing **9214**
supervisor, finishing – printing **7218**
supervisor, finishing – rubber products manufacturing **9214**
supervisor, finishing – textiles **9216**
supervisor, finishing and trimming – rubber and plastic products manufacturing **9214**
supervisor, finishing department – textile processing **9216**
supervisor, fish freezing **9213**
supervisor, fish processing **9213**
supervisor, fish products inspection **2222**
supervisor, fisheries inspectors **2224**
supervisor, fisheries officers **2224**
supervisor, fitness **4167**
supervisor, fitness programs **4167**
supervisor, flight crew scheduling **1215**
supervisor, floor covering **7219**
supervisor, food and beverage processing **9213**
supervisor, food concession **6212**
supervisor, food product graders **9213**
supervisor, food product testers **9213**
supervisor, food services **6212**
supervisor, food testing **9213**
supervisor, footwear inspection – rubber products manufacturing **9214**
supervisor, forest operations **8211**
supervisor, forest products processing **9215**

supervisor, forestry **8211**
supervisor, forestry crew **8211**
supervisor, forestry technicians **2223**
supervisor, forms management analysts **1122**
supervisor, foundry **9211**
supervisor, freight **1215**
supervisor, freight forwarding unit **1215**
supervisor, freight traffic scheduling **1215**
supervisor, fruit and vegetables inspection centre **2222**
supervisor, fur dressing **9225**
supervisor, furniture and fixture manufacturing **9224**
supervisor, furniture finishers **9224**
supervisor, furriers **9225**
supervisor, gaming tables **6443**
supervisor, garage – motor vehicles **7216**
supervisor, gas field **9212**
supervisor, gas fitters **7213**
supervisor, gas service **7213**
supervisor, gas transmission **9212**
supervisor, general office clerks **1211**
supervisor, glass cutters **9211**
supervisor, glazier **7219**
supervisor, glazing **7219**
supervisor, graphic arts room **5241**
supervisor, halfway house **4212**
supervisor, hand compositors **7218**
supervisor, hat dyers **9225**
supervisor, health officers **2263**
supervisor, heavy equipment mechanics **7216**
supervisor, heavy equipment operators **7217**
supervisor, helicopter assembly **9226**
supervisor, hog farm workers **8253**
supervisor, hose building – rubber products manufacturing **9214**
supervisor, hospital admitting clerks **1211**
supervisor, hotel clerks **6216**
supervisor, human resources **1121**
supervisor, Human Rights Commission officers **4164**
supervisor, ice rink **6216**
supervisor, immigration officers **1228**
supervisor, import traffic **1215**
supervisor, industrial electricians **7212**
supervisor, industrial mechanics **7216**
supervisor, information clerks **1213**
supervisor, injection moulding – plastic products manufacturing **9214**
supervisor, inner tube building **9214**
supervisor, insurance agents **6231**
supervisor, integrated-circuit-board fabrication – electronic equipment manufacturing **9222**
supervisor, internal audit – finances **1111**
supervisor, internal auditors – finances **1111**
supervisor, inventory clerks **1215**
supervisor, ironworks **7214**
supervisor, janitors **6215**
supervisor, jewellery assembly **9227**
supervisor, job order clerks – manufacturing **1215**
supervisor, knitting – textile processing **9216**
supervisor, land survey **2154**
supervisor, latherers **7219**
supervisor, launderers **6214**
supervisor, laundry **6214**
supervisor, law archivists **1211**
supervisor, legal services record writers **1211**
supervisor, lens manufacturing (non-prescription) **9227**
supervisor, letter carriers **1214**
supervisor, library **5111**
supervisor, library clerks **1213**
supervisor, licence clerks **1211**
supervisor, lift operations **6216**
supervisor, light rail transit (LRT) operators **7222**
supervisor, line and cable installation and maintenance **7212**
supervisor, line and cable workers **7212**
supervisor, load control **1215**
supervisor, logging **8211**
supervisor, logistics **1215**
supervisor, loss prevention officers **6465**
supervisor, lunch room – elementary school **6472**
supervisor, machine fitters **7216**
supervisor, machine shop **7211**
supervisor, machining **7211**
supervisor, machinists **7211**
supervisor, mail and postal clerks **1214**
supervisor, mail carriers **1214**
supervisor, mail clerks **1214**
supervisor, maintenance electricians **7212**
supervisor, manufacturing order clerks **1215**
supervisor, material clerks **1215**
supervisor, matting inspection – rubber products manufacturing **9214**
supervisor, meat packing **9213**
supervisor, mechanical maintenance **7216**
supervisor, mechanical maintenance – manufacturing **7216**
supervisor, medical laboratory **3211**
supervisor, medical radiation technologists **3215**
supervisor, medical records technicians **1211**
supervisor, medical records unit **1211**

supervisor, medical sonographers **3216**
supervisor, melting and roasting department **9211**
supervisor, merchandise clerks **1212**
supervisor, messenger service **1214**
supervisor, metal-mould and metal-patternmakers **7211**
supervisor, millroom – rubber products manufacturing **9214**
supervisor, millwork assembly **9227**
supervisor, mine **8221**
supervisor, mixing – rubber and plastic products manufacturing **9214**
supervisor, mobile home assembly **9226**
supervisor, mobile radio broadcasting **5224**
supervisor, motor vehicle assembly **9221**
supervisor, motor vehicle mechanics **7216**
supervisor, motor vehicle repair shop **7216**
supervisor, moulding – rubber and plastic products manufacturing **9214**
supervisor, moving van drivers **7222**
supervisor, municipal law enforcement officers **6463**
supervisor, music therapists **3144**
supervisor, night clerks – hotel **6216**
supervisor, nuclear medicine **3215**
supervisor, nuclear medicine technologists **3215**
supervisor, nursery workers **8256**
supervisor, nursing **3151**
supervisor, nursing registry **1211**
supervisor, nursing ward **3151**
supervisor, occupational health **2263**
supervisor, office clerks **1211**
supervisor, office machine operators **1211**
supervisor, office services **1211**
supervisor, oilfield construction **7217**
supervisor, open pit mine **8221**
supervisor, ore milling **9211**
supervisor, packaging – food and beverage processing **9213**
supervisor, paint department – plastic products manufacturing **9214**
supervisor, paint department – rubber products manufacturing **9214**
supervisor, paint shop – motor vehicle manufacturing **9221**
supervisor, painters and decorators **7219**
supervisor, paper converting **9215**
supervisor, paper mill **9215**
supervisor, park **6216**
supervisor, park labourers **8256**
supervisor, parking lot **6216**
supervisor, parts clerks **1215**
supervisor, parts service **1215**
supervisor, passport office **1211**
supervisor, payment processing unit **1212**
supervisor, payroll **1212**
supervisor, payroll clerks **1212**
supervisor, personnel clerks **1211**
supervisor, pest control **7219**
supervisor, petroleum refining **9212**
supervisor, pharmaceuticals production **9212**
supervisor, photocomposer operators **7218**
supervisor, photocopy machine operators **1211**
supervisor, photocopy unit **1211**
supervisor, photographic and film processing **7218**
supervisor, photography **5221**
supervisor, physical therapy **3142**
supervisor, physiotherapy **3142**
supervisor, pipe fitters **7213**
supervisor, pipeline operation **9212**
supervisor, plant electricians **7212**
supervisor, plastering **7219**
supervisor, plastic products inspection **9214**
supervisor, plastic products inspectors **9214**
supervisor, plastic products manufacturing **9214**
supervisor, plastics-processing shop **9214**
supervisor, platemakers **7218**
supervisor, platemaking – printing **7218**
supervisor, plateroom – printing **7218**
supervisor, platework fabricators **7214**
supervisor, plumbers **7213**
supervisor, pool parlour **6216**
supervisor, postal clerks **1214**
supervisor, postal station **1214**
supervisor, postal station employees **1214**
supervisor, postal workers **1214**
supervisor, poultry graders **9213**
supervisor, power linemen/women and cable installers **7212**
supervisor, power station **9212**
supervisor, power system electricians **7212**
supervisor, power systems electricians **7212**
supervisor, prepress – printing **7218**
supervisor, prepress workers **7218**
supervisor, press – printing **7218**
supervisor, pressroom – printing **7218**
supervisor, price information clerks **1211**
supervisor, price markers – retail **6211**
supervisor, primary metal and mineral products processing **9211**
supervisor, printers **7218**
supervisor, printing **7218**
supervisor, printing press operators **7218**

supervisor, private investigators **6465**
supervisor, private police agents and investigators **6465**
supervisor, private policemen/women and investigators **6465**
supervisor, processing and packaging equipment maintenance **7216**
supervisor, production – electronic equipment manufacturing **9222**
supervisor, production – food and beverage processing **9213**
supervisor, production – printing **7218**
supervisor, production clerks **1215**
supervisor, production equipment maintenance mechanic **7216**
supervisor, production machinery maintenance mechanic **7216**
supervisor, production planning clerks **1215**
supervisor, programs – sports and leisure **4167**
supervisor, public accountants **1111**
supervisor, public health inspectors **2263**
supervisor, public opinion interviewers **1213**
supervisor, public works maintenance equipment operators **7217**
supervisor, publication clerks **1213**
supervisor, purchasing **1225**
supervisor, purchasing clerks **1215**
supervisor, quality control – rubber and plastic products manufacturing **9214**
supervisor, quarry **8221**
supervisor, radiation therapists **3215**
supervisor, radio broadcasting equipment operators **5224**
supervisor, radio repair **2242**
supervisor, radiography **3215**
supervisor, radiography technologists **3215**
supervisor, railway car maintenance **7216**
supervisor, railway car repairers **7216**
supervisor, railway equipment department **7216**
supervisor, railway station clerks **6216**
supervisor, railway transport operations **7221**
supervisor, ramp services – airport **1215**
supervisor, real estate agents **6232**
supervisor, receiving **1215**
supervisor, receiving clerks **1215**
supervisor, receptionists **1211**
supervisor, receptionists and hostesses **1211**
supervisor, records clerks **1211**
supervisor, records filing systems analysts **1122**
supervisor, records office **1211**
supervisor, recreation and leisure **4167**
supervisor, recreational and leisure programs **4167**
supervisor, registered representatives **1113**
supervisor, registration unit **1211**
supervisor, remedial gymnasts **3144**
supervisor, reservations – hotel **6216**
supervisor, residential construction **7215**
supervisor, residential electricians **7212**
supervisor, respiratory therapy **3214**
supervisor, retread tire inspection – rubber products manufacturing **9214**
supervisor, rink **6216**
supervisor, roll building – rubber products manufacturing **9214**
supervisor, roof shingling **7219**
supervisor, roofers and shinglers **7219**
supervisor, roofing **7219**
supervisor, rubber footwear moulding **9214**
supervisor, rubber goods dipping **9214**
supervisor, rubber hose building **9214**
supervisor, rubber products inspection **9214**
supervisor, rubber products inspectors **9214**
supervisor, rubber products manufacturing **9214**
supervisor, sales clerks **6211**
supervisor, salt milling **9211**
supervisor, sampling – rubber and plastic products manufacturing **9214**
supervisor, sawmill **9215**
supervisor, scheduling clerks **1215**
supervisor, school bus drivers **7222**
supervisor, security guards **6216**
supervisor, service technicians – household and business equipment **2242**
supervisor, sewage treatment plant **9212**
supervisor, sewing machine operators – fabric, fur and leather products manufacturing **9225**
supervisor, sheet metal roofers **7214**
supervisor, sheet metal workers **7214**
supervisor, shingle mill – wood processing **9215**
supervisor, shipbuilding **9226**
supervisor, shipping **1215**
supervisor, shipping and receiving **1215**
supervisor, shipping clerks **1215**
supervisor, silverware manufacturing **9227**
supervisor, ski lift attendants **6216**
supervisor, slaughterhouse **9213**
supervisor, small engine assembly **9226**
supervisor, small-engine repair shop **7216**
supervisor, small-equipment repair shop **7216**
supervisor, small-machines repair shop **7216**
supervisor, snowmobile assembly **9226**
supervisor, social services program officers **4164**

supervisor, social survey researchers **4164**
supervisor, software design **2173**
supervisor, sound recording **5225**
supervisor, specialty chemicals production **9212**
supervisor, spinning – textile processing **9216**
supervisor, sports **4167**
supervisor, sports equipment assembly **9227**
supervisor, sports equipment manufacturing **9227**
supervisor, sports programs **4167**
supervisor, sports, recreation and leisure **4167**
supervisor, sports, recreational and leisure programs **4167**
supervisor, spray chamber – rubber and plastic products manufacturing **9214**
supervisor, sprinkler system installers **7213**
supervisor, staff training and development **1121**
supervisor, stationary engineers **9212**
supervisor, statistical clerks **1213**
supervisor, steamfitters **7213**
supervisor, stitching department – fabric, fur and leather products manufacturing **9225**
supervisor, stock clerks **1215**
supervisor, stock clerks – retail **6211**
supervisor, street railway operators **7222**
supervisor, structural metal fitters **7214**
supervisor, subway and street railway operators **7222**
supervisor, subway operators **7222**
supervisor, supply technicians – military **1215**
supervisor, surface mine **8221**
supervisor, survey interviewers **1213**
supervisor, switchboard operators **1211**
supervisor, systems testing – electronic equipment manufacturing **9222**
supervisor, tailors **7342**
supervisor, tannery – hide and pelt processing **9225**
supervisor, taxi drivers and private chauffeurs **7222**
supervisor, technical salespersons **6221**
supervisor, technical support **2282**
supervisor, telecommunications **7212**
supervisor, telemarketers **6211**
supervisor, telephone installation **7212**
supervisor, telephone operators **1211**
supervisor, telephone sales clerks **6211**
supervisor, television broadcasting equipment operators **5224**
supervisor, television repair **2242**
supervisor, tellers **1212**
supervisor, testing – electronic equipment manufacturing **9222**
supervisor, textile mechanics **7216**
supervisor, textile processing **9216**
supervisor, theatre attendants **6216**
supervisor, thermoforming – plastics products manufacturing **9214**
supervisor, ticket clerks **6216**
supervisor, ticket sellers **6216**
supervisor, ticket takers **6216**
supervisor, tilesetters **7219**
supervisor, tilesetting **7219**
supervisor, tire building **9214**
supervisor, tire finishing **9214**
supervisor, tire inspection **9214**
supervisor, tire retreading **9214**
supervisor, tire stock preparation **9214**
supervisor, tire tube building **9214**
supervisor, tobacco processing **9213**
supervisor, tobacco-processing machine operators **9213**
supervisor, toll bridge attendants **6216**
supervisor, tool and die inspectors **7211**
supervisor, tool and die makers **7211**
supervisor, tool keepers **1215**
supervisor, tooling inspectors **7211**
supervisor, tour guides **6216**
supervisor, toy manufacturing **9227**
supervisor, tractor-trailer assembly **9226**
supervisor, traffic and distribution **1215**
supervisor, train dispatchers **2275**
supervisor, training programs **1121**
supervisor, travel clerks **6216**
supervisor, tree service **8256**
supervisor, trim and hardware – motor vehicle manufacturing **9221**
supervisor, truck drivers **7222**
supervisor, truck trailer assembly **9226**
supervisor, tufted-carpet weavers **9216**
supervisor, tufting – textile processing **9216**
supervisor, typesetters – printing **7218**
supervisor, typographers **7218**
supervisor, unit clerks **1211**
supervisor, ushers **6216**
supervisor, V-belt building – rubber products manufacturing **9214**
supervisor, vegetable canning **9213**
supervisor, vegetable packing **9213**
supervisor, vulcanization – rubber products manufacturing **9214**
supervisor, water treatment plant **9212**
supervisor, water well drilling **7217**
supervisor, weaving **9216**
supervisor, welders **7214**

supervisor, welfare policy analysts **4164**
supervisor, well digging **7217**
supervisor, well drilling **7217**
supervisor, well services crew – oil field services **8222**
supervisor, wharf clerks **1215**
supervisor, wholesale trade representatives **6411**
supervisor, window washers **6215**
supervisor, women's centre – social services **4212**
supervisor, women's shelter – social services **4212**
supervisor, woodworking machine operators – furniture and fixtures manufacturing **9224**
supervisor, word processing unit **1211**
supervisor, work study analysts **1122**
supervisor, yard – mining and quarrying **8221**
supervisor, yarn preparation – textiles **9216**
supervisor-bartender, lounge **6452**
supervisor-steward, distributing and scheduling – military **1215**
supplier – wholesale **6411**
supplier, rubber moulds **1473**
supplies attendant, beauty salon **6683**
supply and receiving supervisor **1215**
supply and return clerk **1453**
supply boss – mining **8221**
supply centre clerk **1472**
supply chief **0113**
supply clerk **1474**
supply clerk – aeronautics **1473**
supply clerk – automobile **1473**
supply clerk – production **1473**
supply clerk, ship **1474**
supply control co-ordinator **1215**
supply foreman/woman – mining **8221**
supply high school teacher **4141**
supply needs estimator **1473**
supply officer – military **0114**
supply officer, government **1225**
supply officer, ship **6432**
supply service chief **0113**
supply teacher – elementary school **4142**
supply teacher, high school **4141**
supply technician – military **1472**
supply technician (purchasing and inventory) – military **1474**
supply technicians supervisor – military **1215**
supply, processing and distribution aide – medical **3414**
supply-management director **0113**
support materials writer **5121**
support miner **8411**
support services administrative manager **0114**
support services assistant – medical **3413**
support services manager **0114**
support services vice-president – financial, communications and other business services **0013**
support services vice-president – goods production, utilities, transportation and construction **0016**
support services vice-president – health, education, social and community services and membership organizations **0014**
support services vice-president – trade, broadcasting and other services **0015**
Supreme Court clerk **1227**
Supreme Court justice **4111**
Supreme Court of Canada justice **4111**
Supreme Court registrar **1227**
surety underwriter – insurance **1234**
surface foreman/woman – mining **8221**
surface grinder set-up operator **9511**
surface mine blasting foreman/woman **7217**
surface mine foreman/woman **8221**
surface mine supervisor **8221**
surface mining equipment operator **7421**
surface mount assembler – electronic equipment manufacturing **9483**
surface planer operator – woodworking **9513**
surface plate finisher – concrete, clay and stone products **9414**
surface weapons operator – military **6464**
surface weapons technician – military **6464**
surface weaponsman/woman – military **6464**
surface weather observer **2213**
surface-grinder operator, production **9511**
surfacer, acoustical tiles **9517**
surgeon **3111**
surgeon, dental **3113**
surgeon, oral **3113**
surgeon, oral and maxillofacial **3113**
surgeon, veterinary **3114**
surgery professor – university **4121**
surgery, chief of **0311**
surgery, director of **0311**
surgical aide **3413**
surgical appliance fitter **3219**
surgical assistant **3414**
surgical assistant – non-nursing **3414**
surgical assistant, nursing **3233**
surgical co-ordinator – nursing **3151**
surgical fitter **3219**
surgical intensive care nurse **3152**

surgical nursing assistant **3233**
surgical pad knitter **9442**
surgical pathologist **3111**
surgical physician **3111**
surgical resident **3111**
surgical supply salesperson **6221**
surgical technician – non-nursing **3414**
surgical technician – nursing **3233**
surgical ward supervisor – nursing **3151**
surgical-medical claims clerk – insurance **1434**
surplus assets officer **1221**
surrogate court registrar **1227**
surveillance manager – telecommunications **0131**
survey compiler **1454**
survey draftsperson **2253**
survey engineer **2131**
survey interviewer **1454**
survey interviewers supervisor **1213**
survey pilot **2271**
survey research director – government services **0411**
survey research manager – government services **0411**
survey research service manager **0123**
survey statistician **2161**
survey taker **1454**
survey team notekeeper **1454**
surveying and optical instrument repairer **7445**
surveying and optical instrument technician **7445**
surveying and optical instruments repairer helper **7612**
surveying engineer **2131**
surveyor helper **7612**
surveyor, Canada lands **2154**
surveyor, cargo **2262**
surveyor, city **2154**
surveyor, country **2154**
surveyor, land **2154**
surveyor, marine cargo **2262**
surveyor, pipeline **2154**
surveyor, port **2154**
surveyor, property **2154**
surveyor, provincial land **2154**
surveyor, railway **2154**
survival equipment repairer **7445**
suture material winder **9517**
SUV (sports utility vehicle) assembler **9482**
swamper – logging and forestry **8616**
swamper – oil and gas **8615**
swamper – oil field services **8615**
swamper, seasonal – logging **8616**
swamper, seasonal – logging and forestry **8616**
swatch checker – textiles **9444**
sweep moulder – foundry **9412**
sweeper **6661**
swim coach **5252**
swimmer **5251**
swimming coach **5252**
swimming instructor – recreation **5254**
swimming instructor – sports **5254**
swimming pool cleaner **6662**
swimming pool contractor **7219**
swimming pool designer **5243**
swimming pool filter and heater installer **7441**
swimming pool installer **7441**
swimming pool maintenance service manager **0651**
swimming pool repairer **7441**
swimming pool servicer **7441**
swimming pool worker **7441**
swine herdsperson **8253**
swing manager, fast food restaurant **6212**
swing-type lathe operator – woodworking **9513**
switch engineer **7361**
switch engineer – railway **7361**
switch network installer and repairer **7246**
switch network installer and repairer – telecommunications **7246**
switch tender – railway yard **7431**
switchboard operator **1414**
switchboard operator, clerical **1414**
switchboard operators supervisor **1211**
switched communication electrician **7246**
switched network repairer **7246**
switched networks installer **7246**
switcher – railway yard **7431**
switcher, broadcasting **5224**
switcher, interlocking cabins – railway yard **7431**
switcher, interlocking signal boxes – railway yard **7431**
switcher, production **5224**
switcher, switching station – railway yard **7431**
switchgear and control panel assembler – industrial electrical equipment **9485**
switchgear assembler and wirer **9485**
switchgear fitter-wirer – industrial electrical equipment **9485**
switchgear panel assembler – industrial electrical equipment **9485**
switchgear panel installer-fitter **9485**
switchgear rack assembler – industrial electrical equipment **9485**
switching station switcher – railway yard **7431**

switching systems director – telecommunications **0131**
switchman/woman – railway **7431**
switchman/woman – telecommunications **7246**
switchman/woman helper – telecommunications **7612**
switchman/woman, yard – railway transport **7431**
swordfish fisherman/woman **8262**
synthesizer repairer **2242**
synthetic marble production worker **9422**
synthetic textiles technician **2211**
syrup kettle operator **9461**
syrup maker **9461**
system administrator **2281**
system control centre operator – electrical power systems **7352**
system controller – electrical power systems **7352**
system operator – electrical power systems **7352**
systematist, biology **2121**
systems analyst **2171**
systems analyst, EDP (electronic data processing) **2172**
systems analyst, electronic data processing (EDP) **2172**
systems applications engineer **2173**
systems architect **2173**
systems auditor **2171**
systems consultant **2171**
systems designer – hardware **2147**
systems designer – software **2173**
systems development manager **0213**
systems development manager – computer systems **0213**
systems engineer – manufacturing **2141**
systems engineer – software **2173**
systems engineer, aerospace **2146**
systems implementation manager – computer systems **0213**
systems integration manager – computer systems **0213**
systems intergration engineer – software **2173**
systems manager – computer systems **0213**
systems operations manager – computer systems **0213**
systems operator, water treatment **9424**
systems programmer **2174**
systems QA (quality assurance) analyst **2171**
systems quality assurance (QA) analyst **2171**
systems security analyst **2171**
systems security planner **2171**
systems software support sales representative **6221**
systems specialist – computer systems **2171**
systems specialist, business – computer systems **2171**
systems support representative **2282**
systems technical support analyst **2282**
systems test foreman/woman – electronic equipment manufacturing **9222**
systems tester **2283**
systems testing technician **2283**

T

table assembler **9492**
table assembler, wood **9492**
table dancer **5232**
table tennis player **5251**
table top edger – woodworking **9513**
table top laminator – woodworking **9513**
tablet maker **9517**
tablet-coating machine operator **9517**
tablet-making machine tender **9517**
tabulating cards printer **9471**
tabulating machine operator **1422**
tabulating supervisor **1212**
tabulation supervisor **1212**
tabulators supervisor **1212**
tack maker **9516**
tack welder **7265**
tacker – footwear manufacturing **9517**
tacking machine operator – sewing **9451**
tactical acoustics sensor (TAS) operator – military **6464**
tactile interpreter **5125**
tag machine tender – paper converting **9435**
tagger – laundry and dry cleaning **6681**
tag-printing machine tender **9471**
tai-chi instructor **5254**
tail-end brakeman/woman **7362**
tailings disposal labourer – primary metal processing **9611**
tailings thickener tender – primary metal processing **9411**
tailor **7342**
tailor, made-to-measure garments **7342**
tailor, men's garment alterations **7342**
tailor, ready-to-wear garments **7342**
take-out attendant – fast food **6641**
takeout pizza driver **7414**
talent agent **5124**
talent representative **5124**
talk show host/hostess **5231**
tall oil operator **9432**

tallow extractor tender – food processing **9461**
tallow refiner **9617**
tally clerk **1473**
tallyman/woman **1473**
tallyman/woman – production **1473**
tamper operator – construction **7611**
tamper operator – railway **7432**
tamper operator, railway tracks **7432**
tamper-aligner operator – railway **7432**
tamping machine operator – railway **7432**
tandem roller – primary metal processing **9411**
tank assembler, wood **9493**
tank attendant – food and beverage processing **9617**
tank builder helper **7611**
tank calibrator – metal products manufacturing **9612**
tank car cleaner **6662**
tank car controller – railway yard **7431**
tank cleaner **6662**
tank driver – military **6464**
tank farm operator **9232**
tank gunner – military **6464**
tank liner – rubber products manufacturing **9423**
tank stave assembler, wood **9493**
tank tender **9411**
tank tender – primary metal processing **9411**
tank truck driver **7411**
tank truck loader **7452**
tanker loader **7451**
tanker loader – marine cargo handling **7451**
tanker pumper **7434**
tankerman/woman – marine cargo handling **7451**
tankhouse equipment operator – primary metal processing **9411**
tankhouse foreman/woman – primary metal and mineral products processing **9211**
tankhouse helper – primary metal processing **9611**
tankhouse operator – food and beverage processing **9461**
tanner – hide and pelt processing **9453**
tannery foreman/woman – hide and pelt processing **9225**
tannery machinery repairer **7311**
tannery vatman/woman **9453**
tanning salon attendant **6683**
tanning salon manager **0651**
tanning solution preparer **9453**
tanning studio attendant **6683**
tanyard foreman/woman – hide and pelt processing **9225**
tap dance teacher **5134**
tap dancer **5134**
tape cartridge and cassette assembler **9483**
tape cartridge and cassette inspector **9483**
tape librarian, computer **2281**
tape rule printer **9471**
tape-folding machine tender **9443**
taper operator – electrical equipment manufacturing **9487**
taper tender – electrical equipment manufacturing **9487**
taper, drywall **7284**
taping machine tender – electrical equipment manufacturing **9487**
tapman/woman **6452**
tapper – glass manufacturing **9611**
tapper – primary metal processing **9611**
tapper operations foreman/woman – mineral and metal processing **9211**
tapper, cupola **9611**
tapper, furnace – primary metal processing **9611**
tapper, glass – mineral products processing **9611**
tapping machine tender **9516**
tar and gravel roofer **7291**
tar chaser, coke oven **9611**
tar machine tender – textile manufacturing **9443**
tar roofer **7291**
tare assessor – food and beverage processing **9617**
tariff clerk **1431**
tariff counsel **4112**
tarmac paving foreman/woman **7217**
tarot card reader **6484**
tarpaulin finisher **9498**
tart maker **9461**
TAS (tactical acoustics sensor) operator – military **6464**
task force officer **4168**
tassel machine tender – textiles **9442**
tassel maker, machine **9442**
taster and buyer, beverages **6233**
tattoo artist **6482**
tattooer **6482**
tattooist **6482**
tax accountant **1111**
tax adviser **1111**
tax analyst **1111**
tax appeal officer **1228**
tax assessor **1228**
tax attorney **4112**
tax auditor **1111**
tax auditor – government services **1228**

tax clerk **1431**
tax collection officer **1228**
tax collector **1435**
tax consultant **1111**
Tax Court judge **4111**
tax economist **4162**
tax enforcement officer **1228**
tax evaluator **1111**
tax examiner **1111**
tax expert **1111**
tax interpretation officer **1228**
tax investigator **1228**
tax law clerk **4211**
tax lawyer **4112**
tax legal assistant **4211**
tax office chief **0412**
tax officer **1228**
tax paralegal **4211**
tax policy chief **0412**
tax policy research manager – government services **0412**
tax recovery officer **1228**
tax return preparer **1431**
tax specialist **1111**
taxation investigator **1228**
taxation manager **0412**
taxation officer **1228**
taxation programs director **0412**
taxation rulings officer **1111**
taxation service secretary **1241**
taxi and chauffeurs supervisor **7222**
taxi dispatcher **1475**
taxi driver **7413**
taxi inspector **6463**
taxi owner-operator **7413**
taxi stand clerk **1441**
taxicab driver **7413**
taxidermist **5212**
taxidermy technician **5212**
taximeter repairer **7445**
taxonomist, biology **2121**
T-bar attendant **6671**
T-bar operator **6671**
tea blender **9617**
tea blending plant foreman/woman **9213**
tea leaf reader **6484**
tea room manager **0631**
teacher – business college **4131**
teacher – commercial college **4131**
teacher – seminary **4131**
teacher – teacher's college **4121**
teacher for persons who are intellectually impaired **4215**
teacher for persons with an intellectual disability **4215**
teacher for persons with autism **4215**
teacher librarian – elementary school **4142**
teacher of Braille **4215**
teacher of persons who are blind **4215**
teacher of persons who are deaf **4215**
teacher of persons who are hard of hearing **4215**
teacher of persons who are hearing impaired **4215**
teacher of persons with a physical disability **4215**
teacher of persons with a visual impairment **4215**
teacher of persons with developmental disabilities **4215**
teacher, Aboriginal school – elementary school **4142**
teacher, agricultural college **4131**
teacher, agricultural school **4131**
teacher, ballet **5134**
teacher, ballroom dancing **5134**
teacher, Bible college **4131**
teacher, Bible school **4131**
teacher, bridge **5254**
teacher, CEGEP (general and vocational college) **4131**
teacher, ceramics (except education) **5244**
teacher, college of applied arts and technology **4131**
teacher, community college **4131**
teacher, day care **4214**
teacher, elementary school **4142**
teacher, English as a second language – elementary school **4142**
teacher, English as a second language (ESL) – college **4131**
teacher, English as a second language (except elementary, high school or university) **4131**
teacher, finger spelling **4215**
teacher, French as a second language – elementary school **4142**
teacher, French as a second language (except elementary, high school or university **4131**
teacher, gymnastics **5254**
teacher, high school **4141**
teacher, kindergarten **4142**
teacher, legal assistant program – college **4131**
teacher, lip reading **4215**
teacher, music – private, conservatory or studio lessons **5133**
teacher, orientation and mobility **4215**

teacher, orientation and mobility of persons who are blind **4215**
teacher, painting **5136**
teacher, police college **4131**
teacher, preschool **4214**
teacher, primary school **4142**
teacher, printmaking **5136**
teacher, public speaking **4131**
teacher, rehabilitation **4215**
teacher, rolfing movement **3232**
teacher, sculpturing (except primary, secondary, post-secondary education) **5136**
teacher, secondary school **4141**
teacher, special programs for persons with an intellectual disability **4215**
teacher, technological institute **4131**
teacher, vocational institute **4131**
teacher, vocational school **4131**
teacher's aide **6472**
teacher's assistant **6472**
teachers' association director general **0314**
teacher's helper **6472**
teaching assistant – postsecondary **4122**
teaching assistant, college **4122**
teaching assistant, university **4122**
teaching consultant **4166**
teaching homemaker **6471**
teaching orthoptist **3123**
team coach, professional athletes **5252**
team leader, subscription sales **6211**
team manager, professional athletes **0513**
team manager, professional football **0513**
team manager, professional hockey **0513**
team manager, professional track and field **0513**
team supervisor, flour milling **9213**
team training specialist **1122**
technical and vocational program teacher – secondary school **4141**
technical and vocational teacher – secondary school **4141**
technical architect – database **2172**
technical architect – hardware **2147**
technical architect – software **2173**
technical assistant – medical laboratory **3212**
technical assistant – statistics **1454**
technical assistant, pharmacy **3414**
technical attendant – pathology **3211**
technical business equipment salesperson – wholesale **6221**
technical consultant, computer systems analysis **2171**
technical co-ordinator, nuclear medicine **3215**
technical co-ordinator, radiation therapy **3215**
technical co-ordinator, radiography **3215**
technical director – motion pictures, broadcasting and performing arts **5131**
technical director, nuclear medicine **3215**
technical director, radiography **3215**
technical editor **5122**
technical help desk agent **2282**
technical high school principal **0313**
technical illustrator – drafting **2253**
technical indexer – library **5211**
technical indexer – records and file management **1413**
technical inspector, mechanical **2232**
technical office equipment sales representative **6221**
technical officer – museum **5212**
technical producer **5131**
technical producer – motion pictures, broadcasting and performing arts **5131**
technical records clerk **1413**
technical sales consultant **6221**
technical sales executive **6221**
technical sales representative – wholesale **6221**
technical sales specialist **6221**
technical sales specialist, aircraft **6221**
technical sales specialist, chemicals **6221**
technical sales specialist, exports **6221**
technical sales specialist, imports **6221**
technical sales specialist, metals **6221**
technical sales specialist, railway equipment and supplies **6221**
technical sales supervisor **6221**
technical salesperson – wholesale **6221**
technical salesperson, telecommunications **6221**
technical school director **0312**
technical school manager **0312**
technical secretary **1241**
technical service representative – household and business equipment **2242**
technical service sales consultant **6221**
technical services clerk – library **1451**
technical services co-ordinator – telecommunications **0131**
technical services electrical engineer **2133**
technical services head librarian **0511**
technical services librarian **5111**
technical services manager **0131**
technical services officer – statistics **2161**
technical subject vocational instructor **4131**
technical supervisor, medical laboratory **3211**
technical support analyst – systems **2282**

technical support specialist **6221**
technical support supervisor **2282**
technical translator **5125**
technical writer **5121**
technical writer – aeronautics **5121**
technical writer – chemical processing **5121**
technical writer – electronics equipment **5121**
technical writer – pharmaceutical industry **5121**
technical, echography **3216**
technician accountant **1431**
technician, aero-engine – military **7315**
technician, aeromedicine **3219**
technician, aerospace engineering **2232**
technician, agricultural engineering **2231**
technician, aircraft engines **7315**
technician, aircraft gas turbine engines **7315**
technician, aircraft hydraulics shop **7315**
technician, aircraft instruments **2244**
technician, aircraft mechanical systems **7315**
technician, aircraft propeller systems **7315**
technician, aircraft reciprocating engines **7315**
technician, aircraft structural repair **7315**
technician, airframes – military **7315**
technician, alarm system **2242**
technician, ambulance **3234**
technician, animal care **3213**
technician, animal health **3213**
technician, application testing **2283**
technician, architectural **2251**
technician, assistive listening devices **3235**
technician, audiology **3235**
technician, audiometric **3235**
technician, autopsy **3414**
technician, aviation medicine **3219**
technician, biochemistry (except medical) **2211**
technician, blood bank **3212**
technician, body department – motor vehicle manufacturing **9482**
technician, bridge design **2231**
technician, building materials **2231**
technician, cable television **7247**
technician, cardiac catheterization **3217**
technician, cardiology **3217**
technician, cast room **3414**
technician, central supply room – hospital **3414**
technician, chemical engineering **2211**
technician, chemical processing quality control **2211**
technician, civil engineering **2231**
technician, communication lines **7245**
technician, composite repair **7315**
technician, computer equipment – household and business equipment **2242**
technician, computer field service **2242**
technician, computer service **2242**
technician, concrete **2231**
technician, conservation – museums and art galleries **5212**
technician, construction **2231**
technician, construction engineering **2231**
technician, contact lenses **3231**
technician, dairy products **2221**
technician, darkroom – photographic processing **9474**
technician, dental equipment – military **7441**
technician, dental laboratory **3223**
technician, dentures **3221**
technician, diagnostic echography **3216**
technician, diagnostic ultrasonography **3216**
technician, diagnostic ultrasound **3216**
technician, dyeing **2211**
technician, echoencephalography **3218**
technician, educational resources **6472**
technician, electrical testing – motor vehicle manufacturing **9482**
technician, electrical tests – motor vehicle manufacturing **9482**
technician, electrocardiographic (ECG) **3217**
technician, electrocardiography **3217**
technician, electrocardiology **3217**
technician, electroencephalograph (EEG) **3218**
technician, electrolysis **6482**
technician, electromyography (EMG) **3218**
technician, electromyography (EMG) lab **3218**
technician, electronic games – household and business equipment **2242**
technician, electronics – household and business equipment **2242**
technician, EMG (electromyography) **3218**
technician, EMG (electromyography) lab **3218**
technician, environmental **2231**
technician, field service – household and business equipment **2242**
technician, film processing **9474**
technician, finishing department – motor vehicle manufacturing **9482**
technician, fisheries **2221**
technician, food **2211**
technician, food and nutrition – dietetics **3219**
technician, food processing quality control **2211**
technician, forest engineering **2223**
technician, forest resource management **2223**
technician, forestry **2223**

technician, forestry conservation and preservation **2223**
technician, formulation **2211**
technician, geographic information systems (GIS) **2255**
technician, geological engineering **2212**
technician, geological information system **2255**
technician, geological mapping **2255**
technician, geological survey **2212**
technician, geomatics – aerial surveys **2255**
technician, geomatics – cartography **2255**
technician, geomatics – geographical information systems (GIS) **2255**
technician, geomatics – photogrammetry **2255**
technician, geomatics – remote sensing **2255**
technician, geomatics – surveying **2254**
technician, geophysical data **2212**
technician, geophysical survey **2212**
technician, GIS (geographic information system) **2255**
technician, graphic arts **5223**
technician, gravity data **2212**
technician, hair replacement **6482**
technician, hearing aids **3235**
technician, hearing assessment **3235**
technician, hearing disorders **3235**
technician, highway **2231**
technician, highway traffic **2231**
technician, household and business equipment **2242**
technician, hulls – military **7263**
technician, hydrology **2212**
technician, industrial engineering **2233**
technician, industrial instruments **2243**
technician, internet web site **2281**
technician, laboratory animals **3213**
technician, land information system (LIS) **2255**
technician, land survey **2254**
technician, lawn and garden equipment **7335**
technician, library **5211**
technician, LIS (land information system) **2255**
technician, logs **2212**
technician, loom – textile manufacturing **7317**
technician, mammography **3215**
technician, manufacturing **2233**
technician, mass spectrometer **2211**
technician, mass spectrometry **2211**
technician, materials – military **7263**
technician, materials testing **2231**
technician, mechanical engineering **2232**
technician, mechanical tests – motor vehicle manufacturing **9482**
technician, medical records **1413**
technician, metallurgical engineering **2212**
technician, microbiology (except medical) **2221**
technician, mine production **2212**
technician, mine survey **2212**
technician, mineralogy **2212**
technician, mining **2212**
technician, mining engineering **2212**
technician, mining survey **2212**
technician, morgue **3414**
technician, museum **5212**
technician, NDT (non-destructive testing) maintenance **2261**
technician, noise abatement **2231**
technician, noise reduction **2231**
technician, non-destructive examinations **2261**
technician, non-destructive inspection **2261**
technician, nuclear medicine **3215**
technician, occupational therapy **3414**
technician, open-end – textile manufacturing **7317**
technician, operating room – nursing **3233**
technician, ophthalmic (except retail) **3235**
technician, ophthalmic goods antireflection (AR) coating **3414**
technician, ophthalmic lab – retail **3414**
technician, optical laboratory **3414**
technician, optical laboratory – retail **3414**
technician, orthopedic **3414**
technician, orthotic **3219**
technician, outdoor power equipment **7335**
technician, paint department – motor vehicle manufacturing **9482**
technician, paints **2211**
technician, petrochemical engineering **2211**
technician, petroleum engineering **2212**
technician, petrology **2212**
technician, pharmacy **3414**
technician, photo **9474**
technician, photo lab **9474**
technician, photocopy machines **2242**
technician, photogrammetric **2255**
technician, physical rehabilitation **3235**
technician, physiotherapy **3235**
technician, pilot plant **2211**
technician, planning **2233**
technician, plastics **2233**
technician, plastics and synthetic resins **2211**
technician, pollution control **2231**
technician, preventive medicine – military **2263**
technician, process – chemical processing **9232**
technician, propulsion **7315**

technician, prosthetic **3219**
technician, prosthetic-orthotic **3219**
technician, pulp and paper **2233**
technician, radiation oncology **3215**
technician, radio installation and repair **2242**
technician, radio maintenance **2242**
technician, radioisotope **3215**
technician, radiotherapy **3215**
technician, railway **2231**
technician, real estate appraisal **1235**
technician, recreation vehicles **7383**
technician, refinery process **9232**
technician, regional transmitter **5224**
technician, remote sensing (RS) **2255**
technician, reservoir engineering **2212**
technician, restoration **5212**
technician, road traffic **2231**
technician, rotorcraft mechanical systems **7315**
technician, RS (remote sensing) **2255**
technician, safe and vault **7383**
technician, security alarms **2242**
technician, ship repair **2232**
technician, short-wave receiving station **5224**
technician, silkscreen **5223**
technician, silviculture **2223**
technician, small engine **7335**
technician, software testing **2283**
technician, soil science – mining **2212**
technician, solar heating **7441**
technician, solid waste disposal **2231**
technician, speech **3235**
technician, spinning – textile manufacturing **7317**
technician, stereo repair **2242**
technician, structural engineering **2231**
technician, structural repair **7315**
technician, surgical – nursing **3233**
technician, surveying and optical instruments **7445**
technician, synthetic textiles **2211**
technician, telecommunications **7246**
technician, telephone communications **7246**
technician, telephone line **7245**
technician, terminal equipment – military **7246**
technician, textile **2233**
technician, textile dyes **2211**
technician, thermology and electrolysis **6482**
technician, topographic survey **2254**
technician, ultrasonography **3216**
technician, ultrasound **3216**
technician, urban planning **2231**
technician, veterinary **3213**
technician, veterinary laboratory **3213**
technician, video equipment installation and repair – household and business equipment **2242**
technician, visual orthesis **3231**
technician, visual orthotic devices **3231**
technician, water distribution systems **2231**
technician, water well drilling **7373**
technician, web **2281**
technician, wildlife **2221**
technician, wildlife resources **2221**
technician, X-ray (radiology) **3215**
technological institute instructor **4131**
technological institute teacher **4131**
technological subjects vocational instructor **4131**
technologist, aerospace engineering **2232**
technologist, analytical chemistry **2211**
technologist, anatomical pathology **3211**
technologist, anesthesia **3214**
technologist, animal care **3213**
technologist, animal health **3213**
technologist, architectural **2251**
technologist, autopsy – medical laboratory **3211**
technologist, biochemistry **2211**
technologist, biochemistry (except medical) **2211**
technologist, biochemistry laboratory **2211**
technologist, brachytherapy **3215**
technologist, CAD (computer-aided design) **2253**
technologist, cardiac catheterization **3217**
technologist, cardiology **3217**
technologist, cardiovascular perfusion **3214**
technologist, chemical engineering **2211**
technologist, chemical processing quality control **2211**
technologist, chemical products quality control **2211**
technologist, civil engineering **2231**
technologist, civil engineering studies **2231**
technologist, clinical laboratory **3211**
technologist, computer-aided design (CAD) **2253**
technologist, construction **2231**
technologist, diagnostic medical radiation **3215**
technologist, diagnostic radiography **3215**
technologist, dyeing and finishing **2211**
technologist, ECG (electrocardiographic) **3217**
technologist, echoencephalographic **3218**
technologist, echography **3216**
technologist, electrocardiographic (ECG) **3217**
technologist, electrocardiography **3217**
technologist, electrocardiology **3217**
technologist, electroencephalograph **3218**
technologist, electroencephalograph (EEG) **3218**
technologist, electromyography (EMG) **3218**
technologist, electroneurodiagnostic (END) **3218**

technologist, EMG (electromyography) **3218**
technologist, END (electroneurodiagnostic) **3218**
technologist, evoked potential (EP) **3218**
technologist, extracorporal circulation **3214**
technologist, fisheries **2221**
technologist, food **2211**
technologist, food processing quality control **2211**
technologist, forest engineering **2223**
technologist, forest products **2211**
technologist, forestry **2223**
technologist, forestry conservation and preservation **2223**
technologist, geographic information systems (GIS) **2255**
technologist, geological engineering **2212**
technologist, geological information system **2255**
technologist, geomatics – aerial surveys **2255**
technologist, geomatics – cartography **2255**
technologist, geomatics – geographical information systems **2255**
technologist, geomatics – photogrammetry **2255**
technologist, geomatics – remote sensing **2255**
technologist, geomatics – surveying **2254**
technologist, GIS (geographic information systems) **2255**
technologist, groundwater **2212**
technologist, home economics **2211**
technologist, HVAC (heating, ventilating and air conditioning) **2232**
technologist, hydrographic survey **2212**
technologist, industrial engineering **2233**
technologist, industrial hygiene **2211**
technologist, inhalation **3214**
technologist, land information system (LIS) **2255**
technologist, land survey **2254**
technologist, LIS (land information system) **2255**
technologist, magnetic resonance **3215**
technologist, magnetic resonance imaging (MRI) **3215**
technologist, mammography **3215**
technologist, manufacturing **2233**
technologist, marine engineering **2232**
technologist, marine geoscience **2212**
technologist, materials testing **2231**
technologist, mechanical engineering **2232**
technologist, medical laboratory **3211**
technologist, medical radiation **3215**
technologist, metallurgical engineering **2212**
technologist, microbiology (except medical) **2221**
technologist, mine development **2212**
technologist, mine survey **2212**
technologist, mineralogy **2212**
technologist, mining **2212**
technologist, mining engineering **2212**
technologist, mining survey **2212**
technologist, MRI (magnetic resonance imaging) **3215**
technologist, NMRI (nuclear magnetic resonance imaging) **3215**
technologist, nuclear engineering **2232**
technologist, nuclear magnetic resonance imaging (NMRI) **3215**
technologist, nuclear medicine **3215**
technologist, oil geology **2212**
technologist, oncology **3215**
technologist, ophthalmic **3235**
technologist, orthopedic **3414**
technologist, perfusion **3214**
technologist, PET (positron-emission tomography **3215**
technologist, petrochemical engineering **2211**
technologist, petrochemical laboratory **2211**
technologist, petroleum engineering **2212**
technologist, petroleum geology **2212**
technologist, petroleum research **2211**
technologist, photogrammetric **2255**
technologist, pilot plant **2211**
technologist, positron-emission tomography (PET) **3215**
technologist, pulmonary function **3214**
technologist, pulp and paper **2233**
technologist, quality control – industrial engineering **2233**
technologist, quality control of chemical products **2211**
technologist, radiation oncology **3215**
technologist, radiation oncology simulator **3215**
technologist, radiation therapy **3215**
technologist, radiography **3215**
technologist, radioisotope **3215**
technologist, radiology **3215**
technologist, radiotherapy **3215**
technologist, remote sensing (RS) **2255**
technologist, residential buildings **2251**
technologist, respiratory **3214**
technologist, RS (remote sensing) **2255**
technologist, silviculture **2223**
technologist, soil testing **2231**
technologist, structural design **2231**
technologist, textile **2233**
technologist, topographic survey **2254**
technologist, traffic **2231**
technologist, ultrasonography **3216**

technologist, ultrasound **3216**
technologist, vascular **3218**
technologist, veterinary **3213**
technologist, welding **2212**
technologist, wildlife **2221**
technology teacher – community college or technical institute **4131**
teen club programs co-ordinator **4167**
telecasting technician **5226**
telecine operator **5227**
telecommunication cable installation foreman/woman **7212**
telecommunication cable installer **7245**
telecommunication cable repairer **7245**
telecommunication equipment tester and regulator **7246**
telecommunication line construction technician **7245**
telecommunication line installation, repair and testing foreman/woman **7212**
telecommunication line installation, repair and testing supervisor **7212**
telecommunication line installers foreman/woman **7212**
telecommunication line installers, repairers and testers foreman/woman **7212**
telecommunication line maintenance foreman/woman **7212**
telecommunication line maintenance supervisor **7212**
telecommunication line repairers foreman/woman **7212**
telecommunication line service supervisor **7212**
telecommunication line technician **7245**
telecommunication line tester **7246**
telecommunication service foreman/woman **7212**
telecommunication system installers and repairers foreman/woman **7212**
telecommunications contractor **7212**
telecommunications editor **5122**
telecommunications engineering service manager **0211**
telecommunications equipment electrician **7246**
telecommunications equipment inspector **7246**
telecommunications equipment installer **7246**
telecommunications equipment technician **7246**
telecommunications general manager **0013**
telecommunications hardware engineer **2147**
telecommunications hardware specialist **2147**
telecommunications line installer **7245**
telecommunications manager **0131**
telecommunications operator **1475**
telecommunications sales representative **6221**
telecommunications salesperson **6221**
telecommunications service tester **7246**
telecommunications services manager **0131**
telecommunications software engineer **2173**
telecommunications software specialist **2173**
telecommunications specialist – computer systems **2147**
telecommunications supervisor **7212**
telecommunications systems specialist **2147**
telecommunications technician **7246**
telecontrol technologist **7245**
telemarketer **6623**
telemarketer supervisor **6211**
telemarketing services supervisor **6211**
telemarketing supervisor **6211**
telepath **6484**
telephone adjuster – insurance **1233**
telephone agent, personal services **6484**
telephone and teleprinter installer-repairer **7246**
telephone answering service operator **1414**
telephone assembler **9483**
telephone cable splicer **7245**
telephone cable splicer helper **7612**
telephone central office distribution frame maintainer **7246**
telephone central office repairer – telecommunications **7246**
telephone central operator **1424**
telephone clerk **1414**
telephone communication electrician **7246**
telephone company district manager **0131**
telephone directory deliverer – courier service **7414**
telephone engineer **2147**
telephone enquiries clerk **1453**
telephone equipment appraiser **1453**
telephone equipment installer and repairer **7246**
telephone equipment installers foreman/woman **7212**
telephone equipment sales representative – wholesale (non-technical) **6411**
telephone equipment salesperson – retail **6421**
telephone equipment tester **7246**
telephone exchange distribution frame maintainer **7246**
telephone exchange repairer – telecommunications **7246**
telephone exchange tester **7246**
telephone facilities evaluator **7246**
telephone installation foreman/woman **7212**
telephone installation supervisor **7212**

telephone installer **7246**
telephone line and cableman/woman **7245**
telephone line installer – military **7245**
telephone line installer-repairer – military **7245**
telephone line technician **7245**
telephone operator **1424**
telephone operator – telephone system **1424**
telephone operator assistant **1424**
telephone operator, long distance **1424**
telephone operators supervisor **1211**
telephone operators trainer **1424**
telephone relay tester **7246**
telephone repairer **7246**
telephone sales agent **6623**
telephone sales clerk **6623**
telephone sales clerk supervisor **6211**
telephone salesperson **6623**
telephone service analyst **1424**
telephone service assistant **1424**
telephone service supervisor **1424**
telephone servicer **7246**
telephone shop repairer **7246**
telephone solicitor **6623**
telephone station installer **7246**
telephone station repairer **7246**
telephone survey clerk **1454**
telephone switchboard installer and repairer **7246**
telephone switchman/woman **7246**
telephone system control board operator **1424**
telephone system night supervisor **1211**
telephone system relay adjuster **7246**
telephone system supervisor **1211**
telephone technician **7246**
telephone technician – telecommunications **7246**
telephone tester **7246**
telephone toll central office tester **7246**
telephone traffic inspector **7246**
telephone-line and telephone station installer **7246**
teleplaywriter, screenwriter **5121**
teleprinter installer **7246**
teleprinter installer – telecommunications **7246**
teleprinter operator – general office work **1411**
teleprinter operator – military **1411**
teleprinter repairer **7246**
teleprocessing software programmer **2174**
teleprompt operator **5227**
telereceptionist **1414**
teletype and cipher technician – military **7246**
teletype installer – telecommunications **7246**
teletype operator **1411**
teletype operator – military **1411**
teletype repairer – telecommunications **7246**
teletypewriter (TTY) installer **7246**
teletypewriter (TTY) installer – telecommunications **7246**
teletypewriter (TTY) repairer **7246**
teletypist **1411**
television advertising time sales representative **6411**
television advertising time salesperson **6411**
television and stereo equipment store manager **0621**
television antenna installer **7441**
television assembler **9483**
television assembly chief inspector **9483**
television cable service salesperson **6421**
television camera operator **5222**
television camera repairer **2242**
television director **5131**
television director-producer **5131**
television evangelist **4154**
television host/hostess **5231**
television installation and repair technician **2242**
television musical director **5132**
television news anchorperson **5123**
television news camera operator **5222**
television newscaster **5231**
television picture tube laminator **9483**
television picture tube tester – electronic equipment manufacturing **9483**
television producer **5131**
television receive only (TVRO) technician **7247**
television receiver inspector and tester – electronic equipment manufacturing **9483**
television repair supervisor **2242**
television repairer **2242**
television researcher **5123**
television salesperson – retail **6421**
television servicer **2242**
television station manager **0512**
television studio equipment repairer **2242**
television switcher **5224**
television systems engineer **2133**
television time buyer **1225**
television tube assembler **9483**
television writer **5121**
telex operator **1441**
teller – financial services **1433**
tellers supervisor **1212**
temper mill roller – primary metal processing **9411**
temperature regulator **9613**
temperature-actuated controls tester **9484**

temperer – plating and metal spraying **9497**
tempering bin operator – food and beverage processing **9461**
tempering foreman/woman – primary metal processing **9211**
tempering plant tender **9434**
template engraver **9472**
template maker **7383**
template maker – aeronautics **7383**
template maker – shipbuilding **7383**
template maker – tool and die **7232**
tender, air lock **7611**
tender, automatic embroidery machine **9442**
tender, automatic veneer clipper – wood processing **9434**
tender, baler – packaging **9619**
tender, baling machine – rubber and plastic products manufacturing **9615**
tender, baling press – rubber and plastic products manufacturing **9615**
tender, broke beater – pulp and paper **9432**
tender, bronzing machine – printing **9473**
tender, cage – underground mining **8411**
tender, casing-in machine – printing **9473**
tender, cement and concrete pump **7611**
tender, chip ice maker **9517**
tender, coke screen and coke blender **9411**
tender, concrete pipe machine **9414**
tender, concrete saw **9414**
tender, conveyor – material handling (except underground mines) **7452**
tender, cotton roll machine **9619**
tender, crimping machine – leather products manufacturing **9517**
tender, cutting machine – textile products manufacturing **9517**
tender, decorating machine – clay products **9414**
tender, developer-printer machine **9474**
tender, diaper-folding machine – paper converting **9435**
tender, dicer – plastic manufacturing **9495**
tender, dicing machine – plastic manufacturing **9495**
tender, dowel machine – woodworking **9513**
tender, dowelling machine – woodworking **9513**
tender, drill punch – paper converting **9435**
tender, drying machine – clay products **9414**
tender, egg processing machine **8431**
tender, embossing machine – explosives manufacturing **9516**
tender, embossing press – printing **9473**
tender, embossing/encoding machine **9473**
tender, embroidery machine **9442**
tender, envelope flap-button machine – paper converting **9435**
tender, envelope-flap-gumming machine – paper converting **9435**
tender, extruder – mineral products processing **9611**
tender, eyelet-punching machine **9517**
tender, felt press – textiles **9442**
tender, felting machine **9442**
tender, fibre strap machine **9517**
tender, film-developing machine **9474**
tender, film-printing machine **9474**
tender, fishing rod guide winder **9498**
tender, foiling machine – explosives manufacturing **9517**
tender, glass-fibre-bonding machine **9442**
tender, gumming machine – paper converting **9435**
tender, hammer mill – concrete, clay and stone products **9414**
tender, handle and vent machine – mattress manufacturing **9517**
tender, hat-brim-flexing machine – hat manufacturing **9517**
tender, heating and ventilation equipment **7351**
tender, heat-sealing machine – plastic manufacturing **9422**
tender, hogger – wood processing **9614**
tender, hole saw – woodworking **9513**
tender, hologram-imprinting machine **9473**
tender, hosiery-knitting machine **9442**
tender, hydrogen furnace – clay products **9414**
tender, ice-cutting machine **9517**
tender, incinerator plant **9619**
tender, incubator – agriculture **8431**
tender, knitting machine **9442**
tender, label-cutting machine – garment and fabric products manufacturing **9517**
tender, laminating machine – plastic manufacturing **9422**
tender, leasing machine – textiles **9442**
tender, lime mixer **9414**
tender, log vat – wood processing **9434**
tender, metal-twisting machine **9516**
tender, milking machine **8431**
tender, mill – clay products **9414**
tender, mitre saw – woodworking **9513**
tender, nitrocellulose dryer **9421**
tender, orepass – underground mining **8411**
tender, paper twister – paper converting **9435**

tender, paper-punching press – paper converting **9435**
tender, perforating machine – printing **9473**
tender, pilot plant **9232**
tender, plastic coagulating tank **9422**
tender, plastic products vacuum-forming machine **9495**
tender, pleating machine – garment manufacturing **9517**
tender, portable sanding machine – woodworking **9513**
tender, portable saw – woodworking **9513**
tender, power curber **7611**
tender, preform machine – plastic manufacturing **9422**
tender, primer-inserting machine – explosives manufacturing **9517**
tender, quick print machine – photographic processing **9474**
tender, recausticizer **9421**
tender, retort – clay products **9414**
tender, rewinder – pulp and paper **9433**
tender, ribbon-looping machine **9517**
tender, ripping and grooving machine – woodworking **9513**
tender, roll-cutting machine – paper converting **9435**
tender, rolling machine – paper converting **9435**
tender, roll-slitting machine – paper converting **9435**
tender, rope-coiling machine – textiles **9442**
tender, rope-twisting machine **9442**
tender, saddle machine – woodworking **9513**
tender, saturating machine – chemical processing **9421**
tender, sawing machine – woodworking **9513**
tender, scarfing machine – wood processing **9434**
tender, sealing machine – paper converting **9435**
tender, sewage-processing equipment **9424**
tender, shoelace-tipping machine **9517**
tender, skip **8411**
tender, skip – underground mining **8411**
tender, slate-cutting and slate-grinding machine **9414**
tender, slip mixer **9414**
tender, smoothing machine – shoe manufacturing **9619**
tender, sole-moulding machine – footwear manufacturing **9517**
tender, spreader box – construction **7611**
tender, stacking machine – material handling **7452**
tender, steam-pressure cylinder – clay products **9414**
tender, stone grinder **9414**
tender, stone slab splitter **9414**
tender, tapping machine **9516**
tender, tassel machine – textiles **9442**
tender, tempering plant **9434**
tender, trimmer – sawmill **9431**
tender, trimming machine – sawmill **9431**
tender, tumbling barrel – metal products manufacturing **9612**
tender, twisting machine **9517**
tender, tying machine **9619**
tender, ultrasonic cleaning machine **9517**
tender, warp tying machine – textiles **9442**
tender, washing machine extractor – laundry and dry cleaning **6681**
tender, welding rod extruder **9516**
tender, winding machine – other products manufacturing **9517**
tender, wire-pairing machine **9516**
tender, wire-rewinding machine **9516**
tender, wood products machine **9513**
tenderometer tender – food and beverage processing **9465**
tennis ball maker operator **9517**
tennis ball maker tender **9517**
tennis coach **5252**
tennis court attendant **6671**
tennis court manager **0721**
tennis instructor – recreation **5254**
tennis instructor – sports **5254**
tennis net maker, hand **9498**
tennis player **5251**
tenoner operator – woodworking **9513**
tenor **5133**
tensile strength tester **2262**
tensile strength tester, metal – primary metal processing **9415**
tension drying machine tender – textile manufacturing **9443**
tension meter assembler – electronic equipment manufacturing **9483**
tent finisher **9498**
tent frame machine operator **9516**
tent maker **9498**
tent maker, canvas **9498**
tenter machine tender **9443**
tenter machine tender – textile manufacturing **9443**
tenterframe tender **9443**
tepee maker **5244**

terminal air traffic controller **2272**
terminal and repeater tester **7246**
terminal and repeater tester – telecommunications **7246**
terminal equipment technician – military **7246**
terminal operator **1423**
terminal supervisor – motor transport **7222**
terminologist **5125**
terminology advisor **5125**
terra cotta mason **7281**
terrazzo finisher **7283**
terrazzo finisher helper **7611**
terrazzo finishing contractor **7219**
terrazzo floor layer **7283**
terrazzo grinder, manual **7611**
terrazzo layer **7283**
terrazzo layer helper **7611**
terrazzo machine grinder **7611**
terrazzo maker, precast **9414**
terrazzo mason **7283**
terrazzo mechanic **7283**
terrazzo mechanic helper **7611**
terrazzo polisher **7283**
terrazzo polisher helper **7611**
terrazzo polisher-contractor **7219**
terrazzo polishing contractor **7219**
terrazzo setter **7283**
terrazzo setters foreman/woman **7219**
terrazzo worker **7283**
terrazzo, tile and marble setter **7283**
territorial commissioner **0011**
territorial council officer **4168**
territorial resources economist **4162**
territory manager – sales **0611**
test analyst, titanium pigments **2211**
test and trim operator – electronic equipment manufacturing **9483**
test baker – food and beverage processing **9465**
test coordination analyst **2283**
test desk operator – telecommunications **7246**
test driver – automobile assembly **9482**
test engineer, aerospace **2146**
test engineer, electronics **2133**
test engineer, software **2173**
test equipment repairer – oil exploration **2241**
test pilot **2271**
test supervisor **9222**
test supervisor – electronic equipment manufacturing **9222**
test supervisor – electronic manufacturing **9222**
test technician **2241**
tester and adjuster, electrical relays **9484**
tester and inspector – primary metal and mineral products processing **9415**
tester and inspector, packaging **9498**
tester and inspector, wires – primary metal processing **9415**
tester and regulator, telecommunications equipment **7246**
tester, air conditioning unit **9484**
tester, automobile engines – automobile assembly **9482**
tester, ball bearings **9498**
tester, ballast transformers **9484**
tester, beer **9465**
tester, boiler **2261**
tester, bricks and tiles **9415**
tester, castings – primary metal and mineral products processing **9415**
tester, cells – primary metal processing **9415**
tester, cellulose film solutions **2211**
tester, chains **9516**
tester, circuit breaker assembly **9484**
tester, compressed gases **2211**
tester, control panels **2241**
tester, control systems **2241**
tester, cookies and crackers **9465**
tester, cores – foundry **9415**
tester, diesel engines **9486**
tester, electric contacts **9484**
tester, electrical appliance assembly **9484**
tester, electrical continuity **9484**
tester, electrical control **9484**
tester, electrical equipment manufacturing **9484**
tester, electrical light fixtures **9484**
tester, electrical storage batteries **9487**
tester, electrical wire insulation **9484**
tester, electrolysis – electrical equipment manufacturing **9484**
tester, electronic components **9483**
tester, electronic systems **2241**
tester, engine blocks – motor vehicle manufacturing **9482**
tester, engines – automobile assembly **9482**
tester, gas meters **7445**
tester, gasoline pumps **9486**
tester, gearcases **9486**
tester, glass **9415**
tester, glass containers **9415**
tester, lead acid storage battery **9487**
tester, light bulbs **9487**
tester, liquor – food and beverage processing **9465**

tester, metal strength – primary metal processing **9415**
tester, metal tensile strength – primary metal processing **9415**
tester, moisture content – tobacco processing **9465**
tester, motors and controls **9485**
tester, musical instruments **7445**
tester, packaging **9498**
tester, petroleum **2211**
tester, pipes – concrete products **9414**
tester, plastic film rolls **9422**
tester, polymers **2211**
tester, pressure switches **9498**
tester, products – food and beverage processing **9465**
tester, refrigerant gas leaks **9484**
tester, rivets – boat assembly **9491**
tester, small arms **9498**
tester, small electric motors **9484**
tester, small transformers **9484**
tester, springs **9516**
tester, steel – primary metal processing **9415**
tester, sugar **9465**
tester, telecommunication lines **7246**
tester, telephone exchange **7246**
tester, telephone relays **7246**
tester, temperature-actuated controls **9484**
tester, terminal and repeater **7246**
tester, toll telephone central office **7246**
tester, transformer **9485**
tester, transmission – telecommunications **7246**
tester, transmissions – motor vehicle manufacturing **9482**
tester, typewriter assembly **9498**
testing and grading foreman/woman – food, beverage and tobacco processing **9213**
testing engineer, software **2173**
testing foreman/woman – electronic equipment manufacturing **9222**
testing machine operator – electronic equipment manufacturing **9483**
testing mechanic, automotive vehicles **7321**
testing supervisor, communications equipment – electronic equipment manufacturing **9222**
testing technician, highway construction materials **2231**
tests clerk **1441**
textbook sales representative **6411**
textile and clothing consultant – home economics **4164**
textile chemist **2112**
textile colour technologist **2211**
textile colourist **9443**
textile conservator **5112**
textile designer **5243**
textile dye technician **2211**
textile dyeing technician **2211**
textile dyer **9443**
textile engineer **2148**
textile fixer **7317**
textile fleecer – textile manufacturing **9443**
textile grader **9444**
textile identification mark remover **5245**
textile inspector **9444**
textile machine cleaner **9616**
textile machine feeder **9616**
textile machine mechanic **7317**
textile machine mechanics foreman/woman **7216**
textile machine mechanics supervisor **7216**
textile machine offbearer **9616**
textile machine overhauler **7317**
textile machinery assembly foreman/woman **7216**
textile machinery fitter **7316**
textile machinery fixer **7317**
textile machinery mechanic **7317**
textile machinery repairer **7317**
textile machinery salesperson **6221**
textile mark remover **5245**
textile marker-down **5245**
textile mill manager **0911**
textile napper – textile manufacturing **9443**
textile printer **9443**
textile processing foreman/woman **9216**
textile processing supervisor **9216**
textile product bleacher **9443**
textile product labourer **9616**
textile product sampler **9444**
textile products inspector **9444**
textile products mender **9451**
textile products patternmaker **5245**
textile sampler **9444**
textile shader **9444**
textile spinner **9441**
textile spinning-mill manager **0911**
textile spinning-plant manager **0911**
textile technician **2233**
textile technologist **2233**
textile tester **9444**
textile treatment solution mixer **9421**
textile washer **9443**
textile weaver **9442**
textile wringer **9443**
textile-bags-turner operator **9517**

textile-dyeing and finishing machine operator **9443**
textile-printing machine roller repairer – garment manufacturing **7317**
textile-twisting-frame operator **9441**
texturing machine tender – textile manufacturing **9443**
thallium recoverer **9411**
theatre attendant **6683**
theatre cashier **6611**
theatre company director **0512**
theatre company manager **0512**
theatre critic **5123**
theatre designer **5243**
theatre director **0512**
theatre high rigger **5227**
theatre historian **4169**
theatre technician **5226**
theatre usher **6683**
theatrical agent **5124**
theatrical business agent **5124**
theft prevention officer **6465**
theoretical chemist **2112**
theoretical nuclear physicist **2111**
theorist, elementary particles **2111**
therapeutic diet cook **6242**
therapeutic dietitian **3132**
therapeutic nutritionist **3132**
therapeutic radiological technician **3215**
therapeutic recreationist **3144**
therapeutic services administrator **0311**
therapeutic services director **0311**
therapeutic services director – psychiatric hospital **0311**
therapist assistant – medical **3414**
therapist, art **3144**
therapist, dance **3144**
therapist, dance-movement **3144**
therapist, dentures **3221**
therapist, marriage **4153**
therapist, massage **3235**
therapist, movement **3144**
therapist, music **3144**
therapist, physical rehabilitation **3142**
therapist, play **4153**
therapist, respiratory **3214**
therapist, shiatsu **3232**
therapist, speech **3141**
therapist, speech and hearing **3141**
therapy aide – medical **3414**
therapy assistant – medical **3414**
thermal acid equipment operator **9232**
thermal design engineer **2132**
thermal physicist **2111**
thermal plant operator **7351**
thermal power engineer **2132**
thermal station technician **2232**
thermite welder **7265**
thermoforming foreman/woman – plastic manufacturing **9214**
thermoforming supervisor – plastic products manufacturing **9214**
thermographer-tester **2261**
thermographic printer **7381**
thermology and electrolysis technician **6482**
thermomechanical pulp assistant operator – pulp and paper **9432**
thermomechanical pulp operator **9233**
thermometric systems capillary tube charger **9498**
Thermos bottle assembler **9498**
thermospray operator **9497**
thermostat and pressure switch calibrator **9498**
thermostat assembler – electrical equipment manufacturing **9484**
thermostat calibrator **9484**
thermostat capillary sealer **9619**
thermostat inspector **9484**
thermostat repairer **7445**
thermovacuum technologist **2232**
thickener equipment tender – primary metal processing **9411**
thinning saw operator – forestry **8422**
Thiokol operator – plastic manufacturing **9422**
third cook **6242**
third engineer **2274**
third engineer – water transport **2274**
third engineer, Coast Guard vessel **2274**
third hand – pulp and paper **9433**
third mate, ship **2273**
third officer, Coast Guard vessel **2273**
third secretary, foreign service **4168**
third watchkeeping engineer, Coast Guard vessel **2274**
third watchkeeping officer, Coast Guard vessel **2273**
third-class power engineer **7351**
third-class stationary engineer **7351**
thoracic surgeon **3111**
thrasher feeder **9614**
thread cutter – metal machining **9511**
thread doubler **9441**
thread grinder set-up operator **9511**
thread inspector – textiles **9444**
thread laster – shoe manufacturing **9619**

thread spinner **9441**
thread spooler **9441**
thread trimmer – garment manufacturing **9619**
thread winder **9441**
threader – metal machining **9511**
threader – metal products manufacturing **9514**
threader – textiles **9442**
threader, loom **9442**
thread-grinder operator **9511**
threading machine operator **9511**
thread-milling machine set-up operator **9511**
threshing department foreman/woman – tobacco processing **9213**
threshing machine operator **8431**
thrill performer **5232**
throat specialist **3111**
through-hole assembler – electronic equipment manufacturing **9483**
ticket agent – bus line **6434**
ticket agent – cruise line **6434**
ticket agent – transit station **6434**
ticket agent (except airline) **6434**
ticket agent, airline **6433**
ticket and customer service clerk (except airline) **6434**
ticket and information agent – airline **6433**
ticket and information clerk (except airline) **6434**
ticket checker – tobacco processing **9617**
ticket clerk – railway **6434**
ticket clerk (except airline) **6434**
ticket clerk supervisor **6216**
ticket preparer – manufacturing **1411**
ticket seller – cashier **6611**
ticket seller supervisor **6216**
ticket taker **6683**
ticket taker and usher **6683**
ticket taker supervisor **6216**
tie and timber inspector **9436**
tie axe unit operator – railway **7432**
tie crane operator – railway **7432**
tie inspector, railway **7432**
tie maker **9619**
tie plate jack operator – railway **7432**
tie saw operator – railway **7432**
tie shear operator – railway **7432**
tie tamper operator – railway **7432**
tie-bed-scarifier operator – railway **7432**
tie-cutter operator – railway **7432**
tie-cutting machine operator – railway **7432**
tie-dye artisan **5244**
tie-end-remover operator – railway **7432**
tie-injector operator – railway **7432**
tie-placer operator – railway **7432**
tie-plate-placer operator – railway **7432**
tier lift truck operator **7452**
tier-in, warps – textiles **9442**
TIG (tungsten inert gas) welder **7265**
tile and marble contractor **7219**
tile burner – clay products **9414**
tile cutter **9619**
tile designer **5243**
tile fitter **7283**
tile floor layer **7283**
tile grader, clay – mineral products processing **9415**
tile installer **7283**
tile kilnman/woman – clay products **9414**
tile layer **7283**
tile layer helper **7611**
tile maker – clay products **9414**
tile mason **7283**
tile mechanic **7283**
tile roofer **7291**
tile setter helper **7611**
tile, terrazzo and marble setting contractor **7219**
tiler, roofs **7291**
tilesetter **7283**
tilesetter, apprentice **7283**
tilesetters foreman/woman **7219**
tilesetters lead hand **7283**
tilesetters supervisor **7219**
tilesetting contractor **7219**
tilesetting supervisor **7219**
tilt-hoist operator – sawmill **9431**
tilting table tender – metal processing **9411**
timber and steel prop salvager **8614**
timber and steel prop setter helper **8614**
timber buyer **6233**
timber cruiser **2223**
timber cut-off sawyer – sawmill **9431**
timber marker **2223**
timber rider **2223**
timber scaler **2223**
timber technician **2223**
timber treating tank operator **9434**
timbering and steel prop setting helper **8614**
timberman/woman – mines **8411**
timberman/woman – underground mining **8411**
timberman/woman helper – underground mining **8614**
timber-treating tank helper **9614**
time clerk – payroll **1432**
time lock expert **7383**
time study analyst **2233**

time study analyst – services to management firms **1122**
time study technologist **2233**
timekeeper – payroll **1432**
timer, racetrack **5253**
time-study engineer **2141**
tin can dipping enameller **9496**
tin can inspector **9516**
tin plate inspector and grader **9415**
tin plater **9497**
tinned sheet coating machine operator **9496**
tinsel maker operator **9517**
tinsmith **7261**
tinsmith – sheet metal work **7261**
tinsmith helper – construction **7611**
tinsmith roofer **7261**
tinted glassware maker **9413**
tinter – chemical processing **9421**
tinware beader **9516**
tinware dipper and enameller **9496**
tinware dipping enameller **9496**
tipman/woman – surface coal mining **7452**
tipping department foreman/woman – tobacco processing **9213**
tipping machine tender – tobacco processing **9464**
tire assembler **9423**
tire bagger **9423**
tire balance checker – rubber products manufacturing **9615**
tire band wrapper – rubber products manufacturing **9615**
tire bead picker – rubber products manufacturing **9615**
tire breaker operator **9423**
tire buffer **9423**
tire builder **9423**
tire building foreman/woman **9214**
tire building supervisor **9214**
tire changer – automotive service **7443**
tire classifier **9423**
tire cleaner – rubber products manufacturing **9615**
tire cleaner and painter – rubber products manufacturing **9615**
tire coverer **9423**
tire curer **9423**
tire dealer **0621**
tire finisher **9423**
tire finishing foreman/woman **9214**
tire finishing supervisor **9214**
tire inspection supervisor **9214**
tire inspector **9423**
tire maker **9423**
tire measurer – rubber products manufacturing **9615**
tire mould repairer **7232**
tire mould stamper **9511**
tire plant manager **0911**
tire rebuilder **9423**
tire recapper **9423**
tire repairer **7443**
tire repairer – automotive service **7443**
tire repairer, assembly line **9423**
tire repairer-vulcanizer **9423**
tire retread foreman/woman **9214**
tire retreader **9423**
tire retreading inspector **9423**
tire retreading supervisor **9214**
tire salesperson – retail **6421**
tire stock preparation foreman/woman **9214**
tire touch-up and buff worker **9423**
tire tread moulder **9423**
tire trimmer, hand **9423**
tire tube checker – rubber products manufacturing **9615**
tire tube inserter – rubber products manufacturing **9615**
tire tube repairer – rubber products manufacturing **9615**
tire valve worker **9423**
tire vulcanizer **9423**
tire-bagging machine tender **9423**
tire-retreading machine tender **9423**
tissue technologist – medical laboratory **3211**
title and lease clerk **4211**
title artist **5241**
title examiner **4211**
title lawyer **4112**
title searcher **4211**
toaster assembler **9484**
tobacco baler **9617**
tobacco blender **9464**
tobacco blending line attendant **9464**
tobacco buyer **6233**
tobacco casing fluid blender **9464**
tobacco casing fluid cooker – tobacco processing **9464**
tobacco conditioner tender **9464**
tobacco curer **8431**
tobacco curing room foreman/woman **9213**
tobacco cutter – tobacco harvesting **8611**
tobacco cutter – tobacco processing **9464**
tobacco dryer – tobacco processing **9464**
tobacco farm foreman/woman **8253**
tobacco farm worker **8431**

tobacco farmer **8251**
tobacco farming workers foreman/woman **8253**
tobacco flavourer **9464**
tobacco grader **9465**
tobacco harvesting machine operator **8431**
tobacco hogshead liner **9617**
tobacco leaf blender **9464**
tobacco leaf cutter **9464**
tobacco leaf grader **9465**
tobacco leaf grinder **9464**
tobacco leaf twister **9464**
tobacco packaging machine tender **9464**
tobacco packer **9617**
tobacco packer, machine **9617**
tobacco picker **8611**
tobacco primer **8431**
tobacco processing foreman/woman **9213**
tobacco processing labourer **9617**
tobacco processing supervisor **9213**
tobacco product clerk **6421**
tobacco product sales representative – wholesale **6411**
tobacco roller **9464**
tobacco sample puller **9465**
tobacco shop clerk **6421**
tobacco shredder **9464**
tobacco stripper – tobacco harvesting **8611**
tobacco stripper – tobacco processing **9464**
tobacco warehouse manager **0721**
tobacco weigher **9617**
tobacco-blending machine operator **9464**
tobacco-cutting machine tender **9464**
tobacco-dressing machine operator – tobacco processing **9464**
tobacco-packing machine tender **9617**
tobacco-processing machine adjuster **7311**
tobacco-processing machine mechanic **7311**
tobacco-processing machine operator **9464**
tobacco-processing workers foreman/woman **9213**
tobacco-stemming room foreman/woman **9213**
toe and heel sprayer – shoe manufacturing **9619**
toggle switch assembler – electrical equipment manufacturing **9484**
toiletries moulder and compressor **9421**
tole painter **5244**
toll booth attendant **6683**
toll bridge attendants supervisor **6216**
toll collector **6683**
toll communication electrician **7246**
toll equipment man/woman – telecommunications **7246**
toll line inspector – telecommunications **7245**
toll line repairman/woman – telecommunications **7245**
toll lineman/woman – telecommunications **7245**
toll operator **1424**
toll switchman/woman – telecommunications **7246**
toll telephone exchange tester **7246**
toll tester, telephone exchange **7246**
tollgate supervisor **1212**
tomato grower **8251**
tomato juice extractor **9461**
tomato picker **8611**
tombstone erector **7611**
tombstone setter **7611**
tool and cutlery assembly inspector **9498**
tool and die designer **2232**
tool and die inspector **7231**
tool and die inspectors foreman/woman **7211**
tool and die inspectors supervisor **7211**
tool and die maker **7232**
tool and die maker apprentice **7232**
tool and die maker, injection moulds **7232**
tool and die makers foreman/woman **7211**
tool and die makers supervisor **7211**
tool and die making supervisor **7211**
tool and die making teacher – college or vocational institute **4131**
tool and die preparer **7232**
tool and die repairer **7232**
tool and die welder **7265**
tool and equipment rental clerk **6421**
tool and gauge inspector **7231**
tool checker – drafting **2253**
tool clerk **1472**
tool clerks foreman/woman **1215**
tool crib supervisor **1215**
tool design draftsperson **2253**
tool designer **2232**
tool engineer **2132**
tool filer, hand – metal machining **9511**
tool fitter **7232**
tool grinder – metal machining **9511**
tool grinder set-up operator **9511**
tool keepers supervisor **1215**
tool lapper – metal machining **9511**
tool maintainer **7232**
tool maintenance man/woman **7232**
tool maker, bench **7232**
tool maker, jig bore **7232**
tool oiler and maintenance mechanic **7311**
tool oiler and repairer **7311**

tool production department manager **0911**
tool programming technologist **2233**
tool repairer **7232**
tool repairman/woman **7232**
tool room attendant **1472**
tool room storeman/woman **1472**
tool store clerk **1472**
tool-dresser operator **9511**
tooling and metalworking machine try-out tester **9486**
tooling foreman/woman **7211**
tooling inspector **7231**
tooling inspectors foreman/woman **7211**
tooling inspectors supervisor **7211**
tooling supervisor **7211**
toolmaker **7232**
toolpusher – offshore drilling rig **8222**
toolpusher – oil and gas well **8222**
toolroom foreman/woman **7211**
toolroom inspector **7231**
toolroom machinist **7231**
toolsmith **7266**
toothbrush maker operator **9517**
toothpick lathe operator **9513**
toothpick-chopping machine tender **9513**
top cager – underground mining **8411**
top dyer – textile manufacturing **9443**
top knitter **9442**
top-capping machine tender – electrical equipment manufacturing **9487**
topographic survey pilot **2271**
topographic survey technician **2254**
topographic survey technologist **2254**
topographical equipment salesperson **6221**
topper – textiles **9442**
torch brazer **7265**
torch brazing machine setter **7265**
torch welder **7265**
torque wrench calibrator **7445**
totalizator systems technician **2242**
totem pole carver **5244**
touch-up cleaner – furniture finishing and refinishing **9619**
touch-up painter, production **9496**
touch-up person – furniture finishing **9494**
touch-up worker – furniture finishing **9494**
tour and travel manager **0621**
tour director **6441**
tour escort **6441**
tour foreman/woman – pulp and paper **9215**
tour guide **6441**
tour guide supervisor **6216**
tour operator – wholesale **6411**
tour package sales representative – wholesale **6411**
tourism and hotel school manager **0312**
tourism consultant – government **4163**
tourism development director – government services **0412**
tourism development manager – government services **0412**
tourism development officer **4163**
tourism development officer – government **4163**
tourism industry consultant – government **4163**
tourism industry specialist **4163**
tourism information officer **5124**
tourism information technician **5124**
tourism policy director **0412**
tourism promotion director – government services **0412**
tourism research manager – government services **0412**
tourism services co-ordinator – government **4163**
tourism trainer **4131**
tourist booth attendant **1453**
tourist camp attendant **6671**
tourist camp cleaner **6661**
tourist guide **6441**
tourist home operator **0632**
tourist information clerk **1453**
tourist information counsellor **6431**
tourist information office attendant **1453**
tourist information officer **1453**
tow motor driver (except air transport) **7452**
tow truck dispatcher **1475**
tow truck driver **7411**
tower controller – air traffic **2272**
tower crane erector **7264**
tower crane operator **7371**
tower line maintainer – electric power systems **7244**
tower lineman/woman – electric power systems **7244**
tower operator – railway transport **7431**
tower operator – soap **9421**
tower-loader operator – marine cargo handling **7451**
towerman/woman – railway transport **7431**
town clerk **0012**
town planner **2153**
township clerk **0012**
toxicologist **2121**
toy assembler **9498**
toy assembly foreman/woman **9227**

toy designer – arts and crafts **5243**
toy designer – industrial design **2252**
toy inspector **9498**
toy maker **9498**
toy manufacturing foreman/woman **9227**
toy manufacturing supervisor **9227**
toy store manager **0621**
toy store salesperson **6421**
toy-stuffing machine operator **9517**
tracer – telecommunications **7245**
tracer powder blender **9421**
tracer, baggage – airline **6433**
tracer, drafting **2253**
tracer-bullet-loading machine operator **9517**
tracer-patternmaker **5245**
tracer-transferrer **9472**
tracing clerk (except mail) **1441**
tracing clerk, mail **1461**
track and field athletes coach **5252**
track and field coach **5252**
track and field director **0513**
track and field instructor **5254**
track and field judge **5253**
track and field team coach **5252**
track athlete **5251**
track boss **8221**
track boss – railway **7217**
track boss – underground mining **8221**
track broom machine operator – railway **7432**
track dresser – railway **7432**
track equipment operator – underground mining **8411**
track fitter – railway **7432**
track foreman/woman – railway **7217**
track foreman/woman, streetcar **7217**
track greaser – railway **7622**
track inspector, railway **7432**
track judge **5253**
track labourer, railway **7622**
track layer – railway **7432**
track maintenance equipment operator, railway **7432**
track maintenance worker – railway **7432**
track patroller, railway **7432**
track repairer, railway **7432**
track repairman/woman – railway **7432**
track sweeper – railway **7622**
track tamper – railway **7432**
tracked reconnaissance vehicle driver – military **6464**
track-liner operator – railway **7432**
track-loader operator **7421**
track-maintenance-machine operator – railway **7432**
trackman/woman – railway yard **7431**
trackman/woman – underground mining **8411**
trackman/woman, railway **7432**
trackmobile operator – railway **7432**
trackperson – underground mining **8411**
track-surfacing machine operator – railway **7432**
trackwalker – railway **7432**
traction belt builder – rubber products manufacturing **9423**
tractor assembler **9486**
tractor crane operator **7371**
tractor mechanic **7312**
tractor mechanic, farm **7312**
tractor operator – construction **7421**
tractor operator, farming **8431**
tractor repairer, farm **7312**
tractor-excavator operator **7421**
tractor-trailer assembly foreman/woman **9226**
tractor-trailer assembly supervisor **9226**
tractor-trailer driver, long haul **7411**
tractor-trailer truck driver **7411**
trade analyst **4162**
trade association manager **0314**
trade commissioner **0012**
trade development director **0412**
trade development director – government services **0412**
trade economist **4162**
trade expansion manager **0611**
trade instructor – college **4131**
trade instructor – secondary school **4141**
trade liaison director – government services **0412**
trade promotion officer **4163**
trade school director **0312**
trade school general manager **0014**
trade school manager **0312**
trade show organizer **1226**
trade show planner **1226**
trademark agent **4211**
trademark lawyer **4112**
trademark secretary **1242**
trader, foreign exchange **1113**
trader, stocks and bonds **1113**
trades helper – construction **7611**
trades programs department head – college **4131**
tradesman/woman cabinetmaker **7272**
trading floor manager **0121**
traffic and distribution supervisor **1215**
traffic and transportation assistant manager **0713**
traffic checker **1454**

traffic checker, waterways **2275**
traffic chief – telecommunications **0131**
traffic clerk **1473**
traffic clerk – broadcasting **1473**
traffic control clerk **1473**
traffic control supervisor **1215**
traffic controller, subway system **7222**
traffic counter **1454**
traffic engineer **2131**
traffic engineer, rail transportation **2131**
traffic engineering service manager **0211**
traffic engineering service manager – telecommunications **0211**
traffic inspector – police **0641**
traffic inspector – public transit system **7222**
traffic light installer **7441**
traffic light repairer **7244**
traffic manager **0713**
traffic manager – cable systems **0131**
traffic manager – telephone system **0131**
traffic manager – transport **0713**
traffic manager – water transport **0713**
traffic operations engineer **2131**
traffic operator – telephone system **1424**
traffic patrol officer **6261**
traffic rate clerk **1431**
traffic reporter **5231**
traffic safety administrator – government services **0411**
traffic sign painter **5223**
traffic signal installer **7441**
traffic superintendent – police **0641**
traffic supervisor – by-law enforcement **6463**
traffic supervisor – motor transport **7222**
traffic technician – civil engineering **2231**
traffic technician – military **7437**
traffic technologist **2231**
trailer assembler **9486**
trailer assembly foreman/woman **9226**
trailer campsite attendant **6671**
trailer frame assembler **9486**
trailer mechanic **7321**
trailer mechanical systems repairer **7321**
trailer park attendant **6671**
trailer park supervisor **6216**
train conductor **7362**
train dispatcher **2275**
train dispatchers supervisor **2275**
train engineer **7361**
train operator **2275**
train scheduler **1476**
train service attendant **6672**
trainee adjuster – insurance **1233**
trainee instructor **4131**
trainee, non-destructive test **2261**
trainer, athletic boxing **5252**
trainer, boxing **5252**
trainer, company **4131**
trainer, computer **4131**
trainer, horse **8253**
trainer, kickboxing **5252**
trainer, racehorses **8253**
trainer, telephone operators **1424**
training adviser **1121**
training and development consultant **1121**
training and development manager **0112**
training chief **0112**
training clerk **1442**
training consultant **4131**
training course salesperson **6421**
training development officer – military **4131**
training institute director **0312**
training instructor **4131**
training instructor – college or vocational institute **4131**
training officer **4131**
training programs supervisor **1121**
training representative, computers **4131**
trainman/woman – railway yard **7431**
trainman/woman – underground mining **8411**
trainman/woman, yard **7431**
trainmaster **7221**
trammerman/woman **8411**
transcriber **1244**
transcribing machine servicer **7445**
transcriptionist **1244**
transfer bed operator – primary metal processing **9411**
transfer clerk **1431**
transfer company agent **6411**
transfer company manager **0713**
transfer equipment tender – wood processing **9614**
transfer hoist operator **8411**
transfer knitter **9442**
transfer machine tender – metal machining **9511**
transfer machine tender – printing **9471**
transfer man/woman – wood processing **9614**
transfer operator – sawmill **9431**
transfer press operator **9471**
transfer table operator – railway yard **7431**
transfer-of-title clerk **4211**
transferrer **9472**
transformer accessories assembler **9485**

transformer assembler **9485**
transformer assembly clamper **9485**
transformer assembly coil clamper **9485**
transformer builder **9485**
transformer coil impregnator **9487**
transformer coil impregnator operator – electrical equipment manufacturing **9484**
transformer coil repairer **7333**
transformer coil winder **9485**
transformer core assembler **9485**
transformer core lapper **9485**
transformer core maker **9485**
transformer core stacker **9485**
transformer department lead hand **9485**
transformer fitter **9485**
transformer fitter-wirer **9485**
transformer gas detector relay assembler **9485**
transformer inspector **9485**
transformer maker **9485**
transformer repair shop foreman/woman **7216**
transformer repairer **7333**
transformer repairman/woman **7333**
transformer static plate assembler **9484**
transformer stockroom attendant **9613**
transformer subassembler **9485**
transformer tapgear assembler **9485**
transformer tester **9485**
transformer winder **9485**
transistor assembler **9483**
transit man/woman – surveying **2254**
transit operator – surveying **2254**
transit operator – transportation **7412**
transit planner **1476**
transit scheduler **1476**
transit station ticket agent **6434**
transit system general manager **0016**
transit system inspector **7222**
transition home worker – social services **4212**
transition house worker – social services **4212**
translation clerk **1452**
translator **5125**
translator adaptor **5125**
translator, foreign broadcasts **5125**
translator, foreign news **5125**
translator-reviser **5125**
transliterator **5125**
transmission assembler **9486**
transmission assembly inspector **9486**
transmission assembly tester **9486**
transmission installer **9482**
transmission lineman/woman – electric power systems **7244**
transmission lines manager **0912**
transmission mechanic **7321**
transmission operations director – utilities **0912**
transmission operator **5224**
transmission studio control operator **5224**
transmission technician **7321**
transmission tester – motor vehicle manufacturing **9482**
transmission tester – telecommunications **7246**
transmission traffic manager – telecommunications **0131**
transmission-rebuilding shop foreman/woman **9226**
transmitter operator **5224**
transmitting operator **5224**
Transmix operator – rubber products manufacturing **9423**
transplanter **8612**
transport and communications general manager **0016**
transport compliance officer **6463**
transport department manager **0713**
transport driver **7411**
transport economist **4162**
transport logistician **1236**
transport logistics technician **1236**
transport refrigeration mechanic **7313**
transport refrigeration technician **7313**
transport truck mechanic **7321**
transport truck trailer mechanic **7321**
transportation agent (except airline) **6434**
transportation and traffic manager **0713**
transportation clerk **1476**
transportation co-ordinator **1215**
transportation director **0713**
transportation enforcement officer **6463**
transportation engineer **2131**
transportation fleet manager **0713**
transportation logistics manager **0713**
transportation management director **0713**
transportation manager **0713**
transportation planner **2153**
transportation planning co-ordinator **1215**
transportation policy director – government services **0412**
transportation program analyst **4161**
transportation programs manager – government services **0412**
transportation route planning analyst **2153**
transportation route scheduler **1476**
transportation routes scheduler **1476**
transportation safety analyst **4161**

transportation schedule clerk **1476**
transportation schedule maker **1476**
transportation schedules writer **1476**
transportation superintendent **0713**
transportation vehicle scrubber **6662**
trap boss – fishing **8262**
trap fisherman/woman **8262**
trapeze artist **5232**
trapper **8442**
trapping guide **6442**
travel agency assistant manager **0621**
travel agency manager **0621**
travel agent **6431**
travel and relocation department manager **0713**
travel centre counsellor **6431**
travel clerk supervisor **6216**
travel consultant **6431**
travel counsellor **6431**
travel escort **6441**
travel guide **6441**
travel information agent **6431**
travel specialist **6431**
travel trailer installer-servicer **7441**
traveller changer **9616**
travelling salesperson – retail **6421**
travelling salesperson – wholesale **6411**
trawler captain **8261**
trawlerman/woman **8441**
tray carrier attendant, hospital **6641**
tray carrier, hospital **6641**
tread cutter machine operator – rubber products manufacturing **9423**
tread cutter, truck tires **9423**
tread-cutting machine operator – rubber products manufacturing **9423**
treadle saw operator – woodworking **9513**
treasurer **0111**
treasurer and controller – finances **0111**
Treasury Board president **0011**
treasury clerk **1431**
treasury vice-president, banking institution **0013**
treated pole tester – wood processing **9436**
treater helper – chemical processing **9613**
treater, fuel gas **9232**
treater, petroleum **9232**
treating worker – wood preserving **9434**
treatment plant maintenance mechanic **7311**
tree and shrub specialist **2225**
tree grafter – nursery **8432**
tree grower – nursery **8254**
tree harvester operator **8241**
tree nursery operator **8254**
tree planter, seasonal **8616**
tree processor operator – logging **8241**
tree pruner – forestry **8422**
tree pruner – landscaping **8612**
tree removal contractor **8255**
tree service contractor **8255**
tree service manager **8255**
tree service supervisor **8256**
tree service technician **2225**
tree spacer – forestry **8422**
tree sprayer **8612**
tree surgeon helper **8612**
tree trimmer **8612**
treelength forwarder operator **8241**
tree-length harvester operator **8241**
trench digger **7611**
trench-digging machine operator **7421**
trenching machine operator **7421**
triage nurse **3152**
trial co-ordinator – courts **1227**
trial court judge **4111**
tribologist **2132**
tribunal officer **4168**
tribunal officer – government services **4168**
trichologist **6482**
trim and hardware inspector – motor vehicle manufacturing **9482**
trim and hardware supervisor – motor vehicle manufacturing **9221**
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truck dispatcher **1475**
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trust company general manager **0013**
trust company investment manager **0122**
trust company manager **0122**
trust company regional vice-president **0013**
trust company teller **1433**
trust officer **1114**
trust services salesman/woman **1113**
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tunnel engineer **2131**
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tunnelling machine operator **7421**
tunnelling machine operator helper – construction **7611**
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turbine assembly inspector and tester **9486**
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typewriter tester **9498**
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ultrasonography technologist **3216**
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ultrasound technician **3216**
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umbrella maker **9498**
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underground electrical distribution engineer **2133**
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underwater weapons technician – military **6464**
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underwear sewer **9451**
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underwriter, accident and sickness – insurance **1234**
underwriter, automobile – insurance **1234**
underwriter, boiler and machinery – insurance **1234**
underwriter, casualty – insurance **1234**
underwriter, commercial – insurance **1234**
underwriter, farm – insurance **1234**
underwriter, fire – insurance **1234**
underwriter, group – insurance **1234**
underwriter, head office – insurance **1234**
underwriter, home office – insurance **1234**
underwriter, life **1234**
underwriter, marine – insurance **1234**
underwriter, marine and aircraft – insurance **1234**
underwriter, package – insurance **1234**
underwriter, property – insurance **1234**
underwriter, public liability – insurance **1234**
underwriter, securities **1114**
underwriter, surety – insurance **1234**
underwriting department manager **0121**
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union association president **0014**
union organizer **1121**
union representative **1121**
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unit forester **2122**
unit head librarian **5111**
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unit manager, vocational rehabilitation **0314**
unit supervisor – food services **6212**
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university counsellor **4143**
university department head **4121**
university instructor, engineering **4121**
university laboratory assistant **4122**
university maintenance manager **0721**
university professor **4121**
university professor, engineering **4121**
university professor, English **4121**
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university research assistant director **0413**
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urban forester **2122**
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urban planner **2153**
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urban planning and development director – government services **0212**
urban planning and renewal director – government services **0212**
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urban planning technician **2231**
urban renovation planner **2153**
urban road system engineer **2131**
urban snow removal equipment operator – public works **7422**
urban sociologist **4169**
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urban transit system manager **0713**
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utilities instrument mechanic helper **7612**
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vault clerk **1431**
vault clerk – film library **1451**
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vault custodian, furs **6683**
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vault repairer **7383**
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vegetable packing supervisor **9213**
vegetable picker **8611**
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vegetable thinner **8431**
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vehicle safety officer, base – military **0713**
vehicle servicing clerk **1473**
vehicle spring repairer – metal forging **9512**
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vending machine driver-supplier **7414**
vending machine mechanic **7445**
vending machine repairer **7445**
vending machine sales representative **6411**
vending machine services sales representative **6411**
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Venetian blind installer **7441**
Venetian blind maker **9498**
venetian blinds cleaner and repairer **6662**
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ventilation system cleaner **6662**

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verifier, data processing **1422**
vertebrate zoology curator **5112**
vertebrate zoology museum curator **5112**
vertical boring machine operator **9511**
vertical boring mill operator **9511**
vertical boring mill set-up operator – metal machining **9511**
vertical machining centre operator **9511**
vertical milling machine set-up operator – metal machining **9511**
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veterans' affairs field officer **4212**
veterans' services director **0314**
veterinarian **3114**
veterinarian assistant **3213**
veterinarian practitioner **3114**
veterinarian, companion animals **3114**
veterinarian, food animals **3114**
veterinarian, laboratory animals **3114**
veterinarian, preventive medicine **3114**
veterinary anatomist **3114**
veterinary attendant **6483**
veterinary bacteriologist **3114**
veterinary dentist **3114**
veterinary epidemiologist **3114**
veterinary equipment and supplies salesperson **6221**
veterinary helper **6483**
veterinary inspector **3114**
veterinary internist **3114**
veterinary laboratory diagnostician **3114**
veterinary laboratory technician **3213**
veterinary medicine professor – university **4121**
veterinary microbiologist **3114**
veterinary parasitologist **3114**
veterinary parasitology biologist **2121**
veterinary pathologist **3114**
veterinary pharmacologist **3114**
veterinary physiologist **3114**
veterinary radiologist **3114**
veterinary specialist, small animals **3114**
veterinary surgeon **3114**
veterinary technician **3213**
veterinary technologist **3213**
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vibration analysis technician – non-destructive test **2261**
vibration technologist **2232**
vibrator operator – seismic prospecting **8615**
vibrator roller operator **7611**
vibratory compactor operator **7611**
vibratory road roller operator **7421**
vibratory roller operator **7421**
vice squad detective **6261**
vice-consul **0012**
vice-president – college or university **0312**
vice-president – financial, communications and other business services **0013**
vice-president – goods production, utilities, transportation and construction **0016**
vice-president – government services **0012**
vice-president – health, education, social and community services and membership organizations **0014**
vice-president – trade, broadcasting and other services **0015**
vice-president and general sales manager – trade, broadcasting and other services **0015**
vice-president, engineering – goods production, utilities, transportation and construction **0016**
vice-president, engineering – television broadcasting services **0015**
vice-president, finance – food wholesaling **0015**
vice-president, finance – holding company **0013**
vice-president, finance – mining company **0016**
vice-president, human resources – bank **0013**
vice-president, human resources – goods production, utilities, transportation and construction **0016**
vice-president, human resources and organizational development – goods production, utilities, transportation and construction **0016**
vice-president, information systems – trade, broadcasting and other services **0015**
vice-president, marketing – airline **0016**
vice-president, marketing – clerical staff services **0013**
vice-president, marketing – grocery store chain **0015**
vice-president, operations – electric power company **0016**
vice-president, operations – radio broadcasting services **0015**
vice-president, operations – satellite communication services **0013**

vice-president, personnel – bank **0013**
vice-president, sales – pulp and paper manufacturing **0016**
vice-principal, school **0313**
Victoria Order nurse **3152**
Victorian Order of Nurses (VON) nurse **3152**
video and sound recorder **5225**
video archivist **5113**
video artist **5136**
video camera operator **5222**
video camera repairer – household and business equipment **2242**
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video control operator **5224**
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video equipment installation and repair technician – household and business equipment **2242**
video equipment salesperson – retail **6421**
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video maker **5131**
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video rental store manager **0621**
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video store manager **0621**
video technician **5225**
video transmission operator **5224**
video transmission studio control operator **5224**
video-editing equipment operator **5225**
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videotape editor **5225**
videotape postproduction editor **5225**
videotape recording (VTR) editor **5225**
videotape technician **5225**
videotext operator **1423**
vinegar maker **9461**
vinegar maker helper **9617**
vineyard foreman/woman **8253**
vineyard manager **8251**
vineyard pruner **8431**
vineyard workers foreman/woman **8253**
vinyl and asbestos-blending machine tender **9421**
vinyl fabrics inspector **9421**
vinyl floor installer **7295**
vinyl floor layer **7295**
vinyl lettering artist **5223**
vinyl paperhanger **7294**
vinyl pool installer **7441**
vinyl roof installer – motor vehicle manufacturing **9482**
vinyl tile layer **7295**
viola teacher – private, conservatory or studio lessons **5133**
violin maker **5244**
violin repairer **7445**
violin teacher – private, conservatory or studio lessons **5133**
violinist **5133**
virologist **2121**
virology technologist **2221**
viscose filter operator **9421**
viscose filtration foreman/woman – chemical processing **9212**
viscose maker **9421**
viscose solution mixer **9421**
visible minorities policy officer **4164**
visiting homemaker **6471**
visiting nurse **3152**
visiting professor – university **4121**
visiting scholar – university **4121**
visiting teacher – elementary school **4142**
visiting teacher – secondary school **4141**
visitor information counsellor **6431**
visitor interpretation services co-ordinator – government **4163**
visual arts teacher (except primary, secondary, postsecondary education) **5136**
visual basic programmer **2174**
visual inspector – welding **2261**
visual language interpreter **5125**
visual merchandiser **5243**
visual orthesis technician **3231**
visual orthotic device technician **3231**
vital statistician **2161**
vocal music teacher – private, conservatory or studio lessons **5133**
vocal soloist **5133**
vocalist **5133**
vocational counsellor **4213**
vocational education director – government services **0411**
vocational evaluator occupational therapist **3143**
vocational high school principal **0313**
vocational high school teacher **4141**
vocational high school trade instructor **4141**
vocational institute teacher **4131**
vocational instructor, technical subjects **4131**
vocational instructor, technological subjects **4131**
vocational psychologist **4151**
vocational rehabilitation consultant **4153**

vocational rehabilitation counsellor **4153**
vocational rehabilitation unit manager **0314**
vocational school administrator **0312**
vocational school director **0312**
vocational school manager **0312**
vocational school teacher **4131**
vocational school teacher, appliance repair **4131**
vocational secondary school teacher **4141**
vocational teacher – secondary school **4141**
vocational teacher, applied arts subjects **4131**
vocational teacher, high school **4141**
vocational trainer **4131**
vocational training director – government services **0411**
vocational training director – human resources **0112**
vocational training school teacher **4131**
voice coach **5135**
voice communication system operator **1414**
voice teacher – music **5133**
voice teacher – private, conservatory or studio lessons **5133**
voice-over actor **5135**
volcanologist **2113**
volleyball coach **5252**
volleyball player **5251**
voltage regulator maintainer – electrical power system **7243**
volunteer co-ordinator, social services **4212**
volunteer services director **0314**
VON (Victorian Order of Nurses) nurse **3152**
voucher clerk **1431**
VTR (videotape recording) editor **5225**
vulcanization supervisor – rubber products manufacturing **9214**
vulcanization worker – rubber products manufacturing **9615**
vulcanizer – rubber products manufacturing **9423**
vulcanizer tender, rubber tube **9423**

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wad compressor operator **9435**
wafer fabrication operator – electronic equipment manufacturing **9483**
wafer machine tender – electrical equipment manufacturing **9487**
wafer technician – electronic equipment manufacturing **9483**
waferboard making foreman/woman – wood processing **9215**
waferboard press operator – wood processing **9434**
wafering machine operator – electrical equipment manufacturing **9487**
wage analyst **1121**
wage analyst – economic policy **4162**
wage and salary administration manager **0112**
wagon drill operator – underground mining **8231**
waiter/waitress – drive-in restaurant **6453**
waiter/waitress – food and beverage services **6453**
walking bridge crane operator **7371**
walking tour guide **6441**
wall and ceiling installer **7284**
wall and floor covering installer, residential **7295**
wall washer **6661**
wallboard installer **7284**
wallboard sander **7611**
wallboard taper **7284**
wallpaper colourist **5241**
wallpaper designer **5241**
wallpaper gravure proof press operator **7381**
wallpaper inspector **9498**
wallpaper lapper **9435**
wallpaper lapper – paper converting **9435**
wallpaper printer **9471**
wallpaper printer helper **9619**
wallpaper reeler **9435**
wallpaper reeler – paper converting **9435**
wallpaper rotogravure press operator **7381**
wallpaper salesperson – retail **6421**
wallpaper sample sheet cutter-marker **9471**
wallpaper sample sheet marker **9471**
WAN (wide area network) administrator **2281**
WAN (wide area network) technician **2281**
ward aide – medical **3413**
ward clerk – hospital **1441**
ward nurse **3152**
ward secretary – hospital **1243**
ward supervisor – nursing **3151**
wardrobe assistant **5227**
wardrobe attendant **5227**
wardrobe consultant **6481**
wardrobe co-ordinator **5226**
wardrobe master/mistress **5226**
wardrobe supervisor **5226**
ware cleaner – clay products manufacturing **9611**
ware dresser – concrete, clay and stone products **9414**
warehouse and distribution centre manager **0721**
warehouse checker **1472**
warehouse clerk – parts and equipment **1472**

warehouse distribution supervisor **1215**
warehouse foreman/woman **1215**
warehouse keeper helper **7452**
warehouse manager **0721**
warehouse person – parts and equipment **1472**
warehouse receiver **1471**
warehouse shipper **1471**
warehouse shipping clerk **1471**
warehouse superintendent **0721**
warehouse supervisor **1215**
warehouse worker – material handling **7452**
warehouseman/woman **7452**
warehouseperson **7452**
warehousing manager **0721**
warp beamer – textile manufacturing **9441**
warp beamer helper – textile processing **9616**
warp drawer – textiles **9442**
warp drawer-in helper – textiles **9442**
warp dresser – textile manufacturing **9441**
warp end dresser – textile manufacturing **9441**
warp end dyer – textile manufacturing **9443**
warp knitting machine tender **9442**
warp placer – textiles **9442**
warp spinner – textile manufacturing **9441**
warp tension tester – textiles **9444**
warp tier-in – textiles **9442**
warp tier-in, machine – textiles **9442**
warp twister tender – textile manufacturing **9441**
warp tying machine tender – textiles **9442**
warper – textile manufacturing **9441**
warper operator – textile manufacturing **9441**
warper tender, automatic – textiles manufacturing **9441**
warping operator – textile manufacturing **9441**
warranty clerk **1441**
wash line operator – plastic recycling **9422**
washer and dryer – chemical processing **9421**
washer operator, pulp **9432**
washer, hand – laundry and dry cleaning **6681**
washer, machine – laundry and dry cleaning **6681**
washer-dryer, rubber products **9423**
washerman/woman – pulp and paper **9432**
wash-house and recovery operator **9421**
washing and waxing machine tender – food and beverage processing **9617**
washing machine assembler – electrical equipment manufacturing **9484**
washing machine extractor operator – laundry and dry cleaning **6681**
washing machine operator – laundry and dry cleaning **6681**
washing machine repairman/woman **7332**
washing machine servicer **7332**
washing machine tender – textile manufacturing **9443**
washing-screening operator – pulp and paper **9432**
wash-off operator – furniture finishing **9494**
washroom cleaner **6661**
waste diversion consultant **4161**
waste diversion program co-ordinator **4161**
waste diversion program manager **4161**
waste machine feeder **9616**
waste machine feeder – textile processing **9616**
waste management director **0912**
waste management program co-ordinator **4161**
waste reduction and recycling officer **4161**
waste reduction education program officer **4161**
waste reduction program co-ordinator **4161**
waste treatment engineer **2134**
waste treatment operator – metal processing **9411**
waste water treatment plant inspector **2263**
waste water treatment system director **0912**
wastewater collection operator **9424**
wastewater collection systems operator **9424**
wastewater treatment operator **9424**
wastewater treatment plant operator **9424**
wastewater treatment plant worker **9424**
watch assembler **9498**
watch assembly inspector **9498**
watch balance wheel adjuster **9517**
watch crystal edge grinder **9517**
watch escapement put-in-beat adjuster **9498**
watch final assembly inspector **9498**
watch inspector **9498**
watch maker – jewellery manufacturing **7344**
watch movement tester **9498**
watch repairer **7344**
watch repairer apprentice **7344**
watch repairman/woman **7344**
watch sales clerk **6421**
watch salesperson – retail **6421**
watchkeeping mate, ship **2273**
watchkeeping officer – water transport **2273**
watchkeeping officer, Coast Guard vessel **2273**
watchmaker **7344**
watchman/woman, ship **7433**
water and sewer engineer **2131**
water and sewer foreman/woman **9212**
water and wastewater technician **9424**
water bomber pilot **2271**
water bus captain **7436**
water bus master **7436**
water bus operator **7436**

water chemist **2112**
water conditioner repairer **7441**
water conditioner servicer **7441**
water department director **0912**
water distribution manager **0912**
water distribution systems technician **2231**
water filtration plant manager **0912**
water filtration plant mechanic **7311**
water filtration plant operator **9424**
water filtration plant supervisor **9212**
water gate operator **9424**
water heater installer **7441**
water heater servicer **7441**
water inspector **2263**
water intake tender **9613**
water intake tender – utilities **9613**
water leak examiner – motor vehicle manufacturing **9482**
water leak inspector – motor vehicle manufacturing **9482**
water main maintenance man/woman **7442**
water main maintenance worker **7442**
water management engineer **2131**
water meter installer **7442**
water meter reader **1411**
water meter repairer **7445**
water pipe installer **7611**
water plant pump operator **9424**
water pollution control director **0912**
water pollution control foreman/woman **9212**
water pump assembler **9486**
water purification chemist **2112**
water purification plant foreman/woman **9212**
water purification technician **2211**
water resources engineer **2131**
water service dispatcher **1475**
water softener installer **7441**
water softener repairer **7441**
water softener servicer **7441**
water softening system servicer **7441**
water supply maintenance worker **7442**
water system maintenance worker **7442**
water systems engineer **2131**
water taxi captain **7436**
water taxi master **7436**
water taxi operator **7436**
water transport manager **0713**
water treatment chief operator **9212**
water treatment engineer **2131**
water treatment lead operator **9212**
water treatment operations supervisor **9212**
water treatment operator **9424**
water treatment plant foreman/woman **9212**
water treatment plant mechanic **7311**
water treatment plant operator **9424**
water treatment plant operator – primary metal processing **9411**
water treatment plant process technician **9424**
water treatment plant superintendent **9212**
water treatment plant supervisor **9212**
water treatment systems operator **9424**
water utilities plant maintenance man/woman **7442**
water utility operator **9424**
water well driller **7373**
water well driller apprentice **7373**
water well driller helper **7611**
water well driller journeyman/woman **7373**
water well drilling contractor **7217**
water well drilling foreman/woman **7217**
water well drilling supervisor **7217**
water well drilling technician **7373**
watercolourist **5136**
waterman/woman **2273**
water-polo coach **5252**
water-polo player **5251**
waterproofer **9517**
waterproofer – construction **7611**
waterproofer and roofer **7291**
waterproofer helper **7611**
waterproofer, canoe canvas **9491**
waterproofer, garments – garment manufacturing **9619**
waterproofers foreman/woman **7219**
waterproofing foreman/woman **7219**
waterslide attendant **6671**
water-softening system repairer **7441**
waterway traffic checker **2275**
waterworks construction foreman/woman **7217**
waterworks construction inspector **2264**
waterworks director **0912**
waterworks labourer **9613**
waterworks maintenance worker **7442**
waterworks manager **0912**
waterworks pump house operator **9424**
waterworks superintendent **0912**
waterworks utility servicer **7442**
wave soldering machine operator – electronic equipment manufacturing **9483**
wax bleacher **9421**
wax depilation specialist **6482**
wax depilator **6482**
wax moulder **9613**
waxer – textile manufacturing **9443**

waxer, explosives manufacturing **9619**
waxer, moulds – plastic manufacturing **9495**
wax-pattern assembler and repairer **9412**
wax-pattern coater **9412**
wax-pattern moulder **9412**
wax-pattern mouldmaker **9412**
weapons operator – military **6464**
weapons operator, surface – military **6464**
weapons operator, underwater – military **6464**
weapons technician – military **6464**
weapons technician, air – military **6464**
weapons technician, land – military **6464**
weapons technician, surface – military **6464**
weapons technician, underwater – military **6464**
weaponsman/woman, surface – military **6464**
weaponsman/woman, underwater – military **6464**
wearing apparel salesperson – retail **6421**
weather briefer **2213**
weather chart plotter **2213**
weather forecast presentation technician **2213**
weather forecaster **2114**
weather reporter **5231**
weather service specialist **2213**
weather station operations technician **2213**
weather strip installer **7441**
weather stripper **7441**
weave changer – textile manufacturing **7317**
weave room foreman/woman – textile processing **9216**
weave room supervisor – textile processing **9216**
weaver – arts and crafts **5244**
weaver – metal products manufacturing **9516**
weaver – textiles **9442**
weaver helper, wire **9612**
weaver, blankets **9442**
weaver, carpet **9442**
weaver, chair seat **9492**
weaver, cloth **9442**
weaver, hand **5224**
weaver, jacquard loom **9442**
weaver, loom **9442**
weaver, needle loom **9442**
weaver, nets – textiles **9442**
weaver, patterns – textiles **9442**
weaver, power loom **9442**
weaver, rugs **9442**
weaver, samples **9442**
weaver, snowshoes **9498**
weaver, wire lattices **9516**
weaver, wire lattices and wire meshes **9516**
weaver, wire netting **9516**
weaver, wire screens **9516**
weaver, wires **9516**
weaving foreman/woman **9216**
weaving inspector **9444**
weaving instructor (except education) **5244**
weaving room supervisor – textile processing **9216**
weaving room supervisor – textiles **9216**
weaving supervisor **9216**
web communications manager **0611**
web designer **2175**
web designer – graphic design **5241**
web developer **2175**
web graphic designer **5241**
web manager **2175**
web marketing manager **0611**
web page designer **5241**
web press operator – printing **7381**
web pressman/woman – printing **7381**
web programmer **2174**
web site administrator **2281**
web site designer **2175**
web site developer **2175**
web technician **2281**
webmaster **2175**
wedding cake decorator **6252**
wedding consultant **6481**
wedding services consultant **6481**
wedger, machine **9619**
weed control foreman/woman **8256**
weed control service manager – agriculture **8252**
weft straightener – textile manufacturing **9443**
weigh scale attendant, landfill **9613**
weigh station operator – by-law enforcement **6463**
weigh tank tender – food and beverage processing **9461**
weigher **9619**
weigher – chemical processing **9421**
weigher – plastic and rubber manufacturing **9615**
weigher and mixer, colorants – chemical processing **9421**
weigher, freight cars **7622**
weigher, livestock **8431**
weigher, production **9619**
weigher, railway car **7622**
weigher, truck loads **7452**
weigher-counter **9619**
weight analyst, aircraft design – engineer **2146**
weight and balance engineer – aerospace **2146**
weight loss adviser **6481**
weight loss consultant **6481**
weight-lifter **5251**

weightlifting instructor **5254**
weight-loss clinic manager **0651**
weights and measures inspector **2262**
weir fisherman/woman **8262**
welcome wagon agent **6623**
weld inspector **2261**
welded assemblies fitter-tester – aircraft assembly **9481**
welder **7265**
welder apprentice **7265**
welder foreman/woman **7214**
welder helper **9612**
welder operator **7265**
welder, aircraft **7265**
welder, arc **7265**
welder, combination **7265**
welder, drilling platform **7265**
welder, drilling rig **7265**
welder, gas **7265**
welder, gas and arc **7265**
welder, gas-shielded arc **7265**
welder, heliarc **7265**
welder, metal inert gas (MIG) **7265**
welder, MIG (metal inert gas) **7265**
welder, oxyacetylene **7265**
welder, oxyacetylene torch **7265**
welder, oxyhydrogen **7265**
welder, pipeline **7265**
welder, precision **7265**
welder, pressure vessels **7265**
welder, production line **7265**
welder, resistance **7265**
welder, shielded-metal arc **7265**
welder, spot **7265**
welder, submerged arc **7265**
welder, TIG (tungsten inert gas) **7265**
welder, tool and die **7265**
welder, tungsten inert gas (TIG) **7265**
welder, underwater **7382**
welder-assembler **7265**
welder-fitter **7265**
welder-fitter helper **9612**
welder-fitter helper – manufacturing **9612**
welder-setter, resistance **7265**
welding contractor **7214**
welding engineer **2142**
welding equipment mechanic **7311**
welding equipment repairer **7311**
welding equipment salesperson **6221**
welding lay-out man/woman **7265**
welding machine mechanic **7311**
welding machine operator **7265**
welding machine operator helper **9612**
welding machine operator, gas-shielded arc **7265**
welding machine operator, submerged arc **7265**
welding rod-extruder operator **9516**
welding rod-extruder tender **9516**
welding supervisor **7214**
welding teacher – vocational training school **4131**
welding technician, mining **2212**
welding technologist **2212**
welding-rod-extruder operator helper – primary metal processing **9611**
welfare and compensation officer **4212**
welfare economist **4162**
welfare institute inspector – public health **2263**
welfare manager **0314**
welfare organization counsellor **4153**
welfare organization department director **0314**
welfare organization director **0314**
welfare organization manager **0314**
welfare organization supervisor **4212**
welfare policy analysts supervisor **4164**
welfare program officer – corrections **4155**
welfare services administration director – government services **0411**
welfare services administrator – government services **0411**
welfare services director – government services **0411**
welfare worker **4212**
well digging contractor **7217**
well digging supervisor **7217**
well drilling contractor **7217**
well drilling supervisor **7217**
well logging engineer **2145**
well puller – oil field services **8232**
well puller helper – oil field services **8615**
well services crew supervisor – oil and gas drilling **8222**
well services crew supervisor – oil field services **8222**
well testing operator – oil and gas drilling **8232**
well treatment blender operator – oil field services **8412**
well treatment helper – oil field services **8615**
well treatment pump operator – oil field services **8412**
wellness consultant **4165**
wellness co-ordinator **4165**
wellness program co-ordinator **4165**
well-point pump operator **9424**
wellsite co-ordinator – geology **2113**
welt butter and tacker – shoe manufacturing **9619**

welt maker – hat manufacturing **9452**
welt-trimming machine tender – hat manufacturing **9452**
wet explosives mixer **9232**
wet mix operator, orthophosphate **9421**
wet plant recovery equipment tender – primary metal processing **9411**
wet process miller – food and beverage processing **9461**
wet suit maker **9517**
wet-end tender, cellulose films **9421**
wet-starch foreman/woman – food and beverage processing **9213**
wharf clerk **1431**
wharf clerks supervisor **1215**
wharfinger **1431**
wharfman/woman – marine cargo handling **7451**
wheat farmer **8251**
wheat grower **8251**
wheat producer **8251**
wheel alignment and brake mechanic **7321**
wheel alignment and brake specialist **7321**
wheel and axle inspector – railway **7314**
wheel and tire installer – automobile assembly **9482**
wheel maker, abrasive **9414**
wheel shop foreman/woman – railway equipment **7216**
wheelabrator operator – metal products manufacturing **9612**
wheelchair lift assembler **9486**
wheeled reconnaissance vehicle driver – military **6464**
wheelsman/woman **7433**
wheelwright, farm machinery **7312**
whisk assembler **9498**
white lead mixer **9421**
white-metal caster – foundry **9412**
whitener – furniture finishing and refinishing **9494**
whitewater rafting guide **6442**
wholesale buyer **6233**
wholesale establishment manager **0621**
wholesale establishment managing supervisor **0611**
wholesale purveyor **6411**
wholesale trade representative **6411**
wholesale trade representatives supervisor **6411**
wholesaler **0611**
wholesaler – broadcasting **0015**
wicket clerk – mail and postal services **1461**
wicket clerk, postal services **1461**
Wide area network (WAN) administrator **2281**
wide area network (WAN) technician **2281**
wig assistant – motion pictures, broadcasting and performing arts **5227**
wig hair preparer **9498**
wig hairdresser – motion pictures, broadcasting and performing arts **5226**
wig maker **9498**
wig maker, mannequins **9498**
wig stylist **6271**
wildlife biologist **2121**
wildlife biology technician **2221**
wildlife helminthologist **2121**
wildlife naturalist **2121**
wildlife photographer **5221**
wildlife resources technician **2221**
wildlife technician **2221**
wildlife technologist **2221**
willow operator – textile manufacturing **9441**
wills and estates law clerk **4211**
wills and estates legal assistant **4211**
wills and estates paralegal **4211**
wind instrument repairer **7445**
wind tunnel test technician **2232**
wind tunnel test technologist **2232**
winder cleaner – textile processing **9616**
winder fixer – textile manufacturing **7317**
winder operator – pulp and paper **9433**
winder operator – textile manufacturing **9441**
winder tender – textile manufacturing **9441**
winder, AC (alternating current) and DC (direct current) armatures **9485**
winder, cones – paper converting **9435**
winder, cores – paper converting **9435**
winder, electric motors **7333**
winder, insulating tubes **9517**
winder, large transformer coils **9485**
winder, paint rollers **9619**
winder, paper cones – paper converting **9435**
winder, ribbons **9517**
winder, springs **9516**
winder, suture material **9517**
winder, valve springs **9516**
winder-electrician **7333**
winderman/woman – pulp and paper **9433**
winder-repairer, industrial motors **7333**
winding frame cleaner – textile processing **9616**
winding machine fixer – textile manufacturing **7317**
winding machine operator – textile manufacturing **9441**

winding machine tender – other products manufacturing **9517**
winding machine tender – textile manufacturing **9441**
windings inspector – large electric motors manufacturing **9485**
windmill repairer **7311**
window air conditioner installer **7441**
window air conditioner mechanic **7332**
window air conditioner repairer **7332**
window air conditioner repairer helper **7612**
window and door installer, aluminum **7441**
window and screen assembler **9498**
window assembler, aluminum **9498**
window blind mounter **9517**
window caulker **7611**
window cleaner **6662**
window display designer **5243**
window installer **7441**
window sash and frame glazier **7292**
window shade installer **7441**
window shade mounter **9517**
window washer **6662**
window washing service manager **0651**
window washing supervisor **6215**
windsurfing instructor **5254**
wine cellar attendant **1472**
wine fermenter – food and beverage processing **9461**
wine pasteurizer **9461**
wine sales representative – wholesale **6411**
wine server **6453**
wine steward **6453**
wine store manager **0621**
wine store sales clerk **6421**
wine tester **9465**
wine waiter/waitress **6453**
winemaker – food and beverage processing **9461**
wineries fermentation inspector **9465**
wineries gauger **9465**
winery cellar master **9213**
winery cellarman/woman – food and beverage processing **9461**
winery manager **0911**
winery-press operator **9461**
wing assembler, aircraft **9481**
wing inspector – aircraft assembly **9481**
wing marry-up mechanic – aircraft assembly **9481**
wing tank mechanic – aircraft assembly **9481**
winter camping guide **6442**
winterizer tender – food and beverage processing **9461**
wire and harness assembler **9483**
wire basket maker **9516**
wire bender, hand **9619**
wire bonder – electronic equipment manufacturing **9483**
wire border assembler – furniture assembly **9619**
wire bundle machine operator **9516**
wire cable assembler and tester **9516**
wire cable stretcher and tester **9516**
wire coater **9497**
wire connector – electrical equipment manufacturing **9484**
wire drawer **9411**
wire drawer helper **9611**
wire drawer operator **9411**
wire drawer, filigree – jewellery manufacturing **9517**
wire drawer, machine **9411**
wire drawing foreman/woman – primary metal processing **9211**
wire drawing helper **9611**
wire drawing machine operator **9411**
wire fence erector **7441**
wire finisher **9612**
wire lampshade frame maker **9516**
wire lather **7284**
wire lattice and wire mesh weaver **9516**
wire lattice weaver **9516**
wire loom helper **9612**
wire loom operator **9516**
wire loom setter **9516**
wire loop machine operator **9516**
wire machine operator **1411**
wire mesh gate assembler **9516**
wire mesh knitter **9516**
wire mesh setter **7611**
wire netting weaver **9516**
wire products inspector **9415**
wire repairer – textile manufacturing **7317**
wire rewinder, machine **9516**
wire roller operator – primary metal processing **9411**
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wire rope sling and cable splicer **9516**
wire sample former **9411**
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wire screen former **9516**
wire screen maker **9516**

wire screen weaver **9516**
wire sheather – primary metal processing **9411**
wire soldering operator **9483**
wire splicer – electric power systems **7244**
wire splicer – telecommunications **7245**
wire spooler – metal products manufacturing **9612**
wire stripper – electrical equipment manufacturing **9487**
wire tester and inspector – primary metal processing **9415**
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wire wound resistor calibrator **9483**
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wire-coating equipment operator **9497**
wire-coiner operator **9516**
wire-crimping machine operator **9516**
wire-cutting machine operator – electronic equipment manufacturing **9483**
wire-drawing die maker **7232**
wireless communication network engineer **2147**
wireline field supervisor – oil field services **8222**
wireline helper – oil field services **8615**
wireline operator – oil field services **8232**
wireline operator trainee **8232**
wireman/woman – industrial electrical equipment **9485**
wireman/woman – telecommunications **7246**
wire-mesh-fence-making machine operator **9516**
wire-netting machine operator **9516**
wire-numbering machine tender – electrical equipment manufacturing **9487**
wire-paint-coating machine tender **9496**
wire-pairing machine tender **9516**
wireperson, electrical switchgear **9485**
wirer – telecommunications **7246**
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wirer, electric lighting fixtures **9484**
wirer, electrical switchgear panels **9485**
wirer, frame – telephone **7246**
wirer, residential construction **7241**
wirer/woman – industrial electrical equipment **9485**
wire-rewinding machine tender **9516**
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wiring and assembly operator **9483**
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wiring electrician **7241**
wiring inspector – domestic installation **2264**
wiring inspector – industrial installation **2264**
wobble saw operator – woodworking **9513**
women's centre co-ordinator – social services **4212**
women's centre manager **0314**
women's centre program supervisor – social services **4212**
women's clothing sales clerk **6421**
women's employment policy consultant **4164**
women's fashion designer **5243**
women's garment alterations seamstress **7342**
women's garment custom seamstress **7342**
women's hat maker – milliner **7342**
women's issues lobbyist **4164**
women's program co-ordinator **4164**
women's shelter program co-ordinator **4164**
women's shelter supervisor – social services **4212**
women's status policy consultant **4164**
women's wear sales clerk **6421**
wood blank sawyer **9513**
wood block artist **5136**
wood burner installer **7331**
wood burner maintainer **7331**
wood carver **5244**
wood chemist **2112**
wood chip unloader **9614**
wood cutter – logging **8421**
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wood frame house carpenter **7271**
wood furnace installer **7331**
wood furniture and fixtures patternmaker **7272**
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wood grainer – furniture finishing and refinishing **9494**
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wood machining workers foreman/woman – furniture and fixtures manufacturing **9224**
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wood measurer – wood processing **9436**
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wood mould maker **7272**
wood particle dryer tender **9434**
wood particles mixer-dryer tender **9434**
wood pattern inspector **7272**
wood pattern repairman/woman – foundry **7272**
wood patternmaker **7272**
wood patternmakers foreman/woman **7215**
wood processing grader **9436**
wood processing inspector **9436**
wood processing labourer **9614**
wood products assembler **9493**
wood products assembling inspector **9493**
wood products assembly inspector **9493**
wood products assembly lead hand **9493**
wood products bench assembler **9493**
wood products factory assembler **9493**
wood products finisher – furniture manufacturing **9619**
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wood shingle roofing contractor **7219**
wood shingler **7291**
wood shipwright **7271**
wood siding applicator **7441**
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wood-burning appliance installer **7331**
wood-burning system installer **7331**
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wood-carving machine operator **9513**
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wooden barrel header **9493**
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wooden barrel maker **9493**
wooden barrel-header fitter – woodworking **9513**
wooden basket maker **9493**
wooden boat assembly inspector **9491**
wooden boat inspector **9491**
wooden boatbuilder **7271**
wooden box assembler **9493**
wooden box bander **9619**
wooden box bench hand **9493**
wooden box builder **9493**
wooden box maker foreman/woman **9227**
wooden case builder **9493**
wooden casket assembler **9492**
wooden casket inspector **9493**
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wooden crate builder **9493**
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wooden fence erector **7441**
wooden furniture assembly repairer **9492**
wooden golf club facer **9493**
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wooden keg builder **9493**
wooden keg maker **9493**
wooden ladder assembler **9493**
wooden ladder builder **9493**
wooden pallet assembler **9493**
wooden pallet maker **9493**
wooden panel installer **7441**
wooden panel matcher **9493**
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wooden sash and door inspector **9493**
wooden shuttle inspector **9493**
wooden stave turner – woodworking **9513**
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wooden tank bottom sawyer and assembler **9493**
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wooden truss making foreman/woman – manufacturing **9227**
wooden window sash installer **7441**
woodenware assembler **9493**
woodenware carver, hand **5244**
woodlands manager **0811**
wood-machining quality-control inspectors foreman/woman – furniture and fixtures manufacturing **9224**
wood-oiling machine operator – wood processing **9434**
wood-preserving plant labourer **9614**
woods foreman/woman **8211**
woods superintendent **0811**
woodsawyer – woodworking **9513**
wood-treating machine foreman/woman **9215**
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woodworking machine feeder **9619**
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wool grader **9444**
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wool shearing contractor **8252**
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work reorganization consultant **1122**
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work site auditor **4161**
work study analyst **1122**
work study analysts supervisor **1122**
workboat operator **7436**
worker, artificial insemination **8431**
worker, campground **6671**
worker, cemetery **8612**
worker, farm **8431**
worker, golf course **8612**
worker, greens **8612**
worker, grounds maintenance **8612**
worker, landscape **8612**
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worker, parks **8612**
worker, plant care **8612**
worker, sawmill **9614**
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workers' compensation officer **4164**
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wrecker, buildings **7611**
wrecker, buildings and houses **7611**
wrecking crane operator **7371**
wrecking crew foreman/woman **7217**
wrestler **5251**
wringer operator – textile manufacturing **9443**
wringer tender – textile manufacturing **9443**

wring-out machine operator – textile manufacturing **9443**
wrinkle remover – shoe manufacturing **9619**
writ server – bailiff **6461**
writer **5121**
writer, advertising **5121**
writer, fiction **5121**
writer, handbooks **5121**
writer, interactive media **5121**
writer, multimedia **5121**
writer, music **5132**
writer, new media **5121**
writer, self-instruction manuals **5121**
writer, short stories **5121**
writer, signs **5223**
writer, songs **5132**
writer, speeches **5121**
writer-composer-performer **5132**
writer-editor **5122**

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X-ray equipment salesperson **6221**
X-ray film developer **9474**
X-ray machine operator – medical **3215**
X-ray physicist **2111**
X-ray plate developer **9474**
X-ray technician – military **3215**

Y

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yard attendant, livestock **8431**
yard attendant, used building materials **7452**
yard boss – mining and quarrying **8221**
yard cleaner, poultry **8431**
yard clerk **1475**
yard coupler – railway **7431**
yard engineer – railway **7361**
yard foreman/woman – pulp and paper **9215**
yard foreman/woman – railway **7221**
yard foreman/woman, scrap metal **9211**
yard goods salesperson – retail **6421**
yard labourer – pulp and paper **9614**
yard locomotive engineer **7361**
yard supervisor – mining and quarrying **8221**
yard switchman/woman – railway transport **7431**
yard trainman/woman **7431**
yard worker – railway **7431**
yardage controller – glass products manufacturing **9413**
yarder operator **8241**
yarding engineer – logging **8241**
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yardman/woman, livestock **8431**
yardmaster – railway **7221**
yarn and spun yarn inspector **9444**
yarn conditioner **9443**
yarn doubler – textile manufacturing **9441**
yarn dryer **9443**
yarn dyer **9443**
yarn examiner **9444**
yarn finisher **9443**
yarn handler **9616**
yarn inspector **9444**
yarn mercerizer **9443**
yarn salvager **9616**
yarn soaker **9441**
yarn spinner **9441**
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yarn winder **9441**
yarn winder tender **9441**
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yarn-drying machine tender **9443**
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yarn-texturing machine tender – textile fibre **9441**
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yeast cutter **9461**
yeast dryer **9461**
yeast emulsifier tender – food and beverage processing **9461**
yeast maker **9461**
yeast processing labourer **9617**
yeast room operator **9461**
yeast sampler – food and beverage processing **9617**
yeast separator – food and beverage processing **9617**
YMCA (Young Men's Christian Association) general director **0513**
YMCA (Young Men's Christian Association) general secretary **0513**
YMCA (Young Men's Christian Association) programs director **0513**
yoga instructor **5254**
yogurt maker **9461**
young offender services director **0314**
youth centre nurse **3152**
youth court clerk **1443**

youth court judge **4111**
youth development co-ordinator **4212**
youth hostel co-ordinator **4212**
youth hostel manager **0632**
youth recreational and leisure activities consultant **4167**
youth recreational and leisure activities counsellor **4167**
youth recreational and leisure activities program co-ordinator **4167**
youth services worker **4212**
youth worker **4212**
youth worker – corrections **4155**
youth worker – social services **4212**

Z

zamboni driver **6671**
zinc cathode puller **9611**
zinc cell operator **9411**
zinc chloride separator tender **9411**
zinc drosser **9611**
zinc dust maker **9611**
zinc electrolysis lead burner helper **9611**
zinc galvanizer **9497**
zinc pressure leach operator **9411**
zinc roofers foreman/woman **7214**
zinc vapour condenser **9411**
zipper assembler **9498**
zipper chain assembler **9498**
zipper chain machine tender **9517**
zipper inspector **9498**
zipper links machine tender **9516**
zipper links maker **9516**
zipper machine operator **9517**
zipper machine tender (except plastic products) **9517**
zipper repairer **9619**
zipper-cutting machine operator **9517**
zipper-forming machine tender – plastic products manufacturing **9495**
zipper-sewing machine operator **9451**
zone manager – sales **0611**
zone supervisor, assembly – motor vehicle manufacturing **9221**
zone supervisor, motor vehicle assembly **9221**
zoning enforcement officer **6463**
zoning inspector **6463**
zoning officer **2153**
zoning officer – land use **2153**
zoo animal attendant **6483**
zoo attendant **6483**
zoo foreman/woman **2221**
zoo interpreter **5212**
zoo supervisor **2221**
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zoological garden director **0212**
zoological park director **0212**
zoological technician **2221**
zoological technologist **2221**
zoologist **2121**
zoology professor – university **4121**
zyglo inspector **2261**
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Human Resources Development Canada
Développement des ressources humaines Canada

National Occupational Classification

NOC Training tutorial

2001

Canada

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Introduction

Overview

The *National Occupational Classification* (NOC) is a system for describing the occupations of Canadians. It gives statisticians, labour market analysts, career counsellors, employers and individual job seekers a standardized way of describing and understanding the nature of work. The system includes a series of publications that help these people to organize and use statistics and other labour market facts.

Putting it to Work is a companion to these publications and a training resource for anyone who is using or intends to use the NOC. By the end of this training, you will be able to:

- understand the structure and components of the NOC
- understand the importance and applications of the NOC
- properly classify occupations according to the NOC

To facilitate the learning process, voluntary quizzes are available to help you understand the material. At the end of your session, we encourage you to take the NOC Challenge. Similar to the quizzes, the NOC challenge is designed to provide feedback on your understanding and ability to effectively use all components of the NOC. More information about these quizzes and the NOC Challenge will be discussed later.

Note: The quizzes and the NOC challenge are only available on the Internet.

In order to complete this training you will need to have access to the NOC Occupational Descriptions binder[1], the NOC Matrix and the Index of Titles either in hardcopy format or via the internet at: www.hrdc-drhc.gc.ca/noc.

The structure of this tutorial is based on a progressive learning format. We will first look at the origin of the NOC, its importance and its uses and look at the structure of the NOC. You will learn the meaning of the digits of NOC codes and how they relate directly to the structure. By the end of this training you will know how to use the NOC for coding purposes, looking-up occupational titles, understanding occupational descriptions and other applications.

Let us start by understanding the origin of the NOC and it's significance in Canada.

History

The NOC was implemented in 1992 as a replacement for the *Canadian Classification and Dictionary of Occupations* (CCDO). It was created through an extensive program of research, collecting information from employers, workers, educators and associations. Analysis and consultation were also conducted with providers and users of labour market data across the country. Human Resources Development Canada (HRDC) worked closely with Statistics Canada to ensure strong links between the NOC and Statistics Canada's parallel *Standard Occupational Classification* (SOC '91) for the collection and use of labour market data.

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[1] This includes the *Occupational Descriptions* information that is available over the Internet in electronic format.

This training guide introduces the revised edition of the NOC. NOC 2001 replaces the original publication and the parallel 1991 SOC produced by Statistics Canada. The revised SOC is now entitled the *National Occupational Classification for Statistics* (NOC-S). NOC 2001 and the NOC-S fill the gaps that have been identified as shortcomings of the NOC system. These include a missing technical level for information technology occupations, inconsistencies in relation to the statistical structure and the challenges in capturing the emergence of new ways of working and new titles used in the labour market. NOC 2001, while conservative with respect to structural change, reflects the evolution occupations have undergone over the past decade in Canada.

The goal of the NOC is to make it easier for users at all levels to achieve a better understanding of the world of work. For this reason, there are two main NOC publications:

- The *Occupational Descriptions* binder provides formal descriptions of 520 occupational groups. These descriptions are identified by codes and titles organized in a three-level numerical hierarchy.

  The NOC ensures that labour market statistics are collected and assembled in a standard way that will be meaningful to users. At the same time, the descriptions allow technical users, such as economists and business analysts, to understand exactly what the statistics mean.

- The *Career Handbook* is the counselling version of the NOC. It links work performed in occupations with worker characteristics. This two-volume set provides details of aptitudes and interests as well as physical activities and educational requirements for nearly 900 occupations, along with information about career opportunities in each. This resource is intended primarily for guidance and employment counsellors, but individuals seeking to plan their own careers will also find it useful.

  It is important to note that the *Career Handbook* is currently under revision. Summer of 2002 is the projected release for the revised Handbook. Consequently, prior to the 2002 release of the *Career Handbook*, the current version should be used in conjunction with the 1992 version of the NOC structure to ensure proper concordance.

The NOC publications support a variety of other sources of career information published by the Government of Canada and others. For example, *Job Futures*, the widely-used source of information about occupational outlooks, and the national Job Bank, an electronic listing of jobs, work or business opportunities provided by Canadian employers are both organized according to NOC definitions. By providing a standard way of organizing labour market information, the NOC helps all Canadians to be better informed about the world of work.

Applications

The NOC provides a standardized language for describing the work performed by Canadians. It is used at every stage of the process from defining and collecting data, managing information databases, analyzing labour market trends and extracting practical career planning information.

Data Collection

The hierarchical coding structure of the NOC is used in the collection of occupational information. Economists and statisticians use the NOC to guide the collection and compilation of data. The Government of Canada uses the *National Occupational Classification for Statistics (NOC-S)* for the analysis of occupational data collected from the Census, Labour Force Survey and other surveys.

The NOC is also used for a variety of special surveys with respect to worker mobility, technological change, administrative data and other indicators of labour market behavior. In addition, provincial governments and private survey companies use the NOC to ensure that the information they collect will be directly comparable to data they get from other sources.

Labour Market Analysis

Labour market researchers use the NOC to understand the underpinnings of the statistics they use, and, more importantly, to interpret them correctly. The NOC provides the context for the interpretation of statistical information. These users analyze the Canadian labour market to understand emerging trends, to guide policy decisions and to develop systems for training, recruiting and job matching. National, regional, and local labour market information can be accessed by visiting www.hrdc-drhc.gc.ca.

Labour market analysis includes work done within the government to set policy and make the labour market work more efficiently. For example, the Federal government uses this type of analysis to allocate spending for labour market programs, to manage its systems for matching jobs with people and for immigrant selection procedures. Provincial and municipal governments have similar applications.

Career Planning and Job Seeking

Career developers, counsellors and students use the NOC and the *Career Handbook* for career planning. An understanding of occupational definitions, requirements and opportunities is central to their goal of matching the interests and aptitudes of individuals to the requirements and opportunities associated with occupations.

Job seekers, employment counsellors and employers rely on the NOC to make effective use of labour market information services provided by the federal government and other sources. An important application is the national Job Bank, which is accessible over the Internet and can be viewed at www.jobbank.gc.ca/.

Exploring the NOC

In a nutshell, the NOC is a tool that is used to classify occupations according to their skill level and skill type. A four-digit code, called the NOC code, identifies the occupation. Each digit of this code reflects an important trait of the occupation it represents.

Let's begin by looking at each digit and the significance it has with respect to the NOC.

Skill Type

The skill type is based on the type of work performed, but it also reflects the field of training or experience that is normally required for entry into the occupation. This includes the educational area of study required, as well as the industry of employment in cases where experience within an internal job ladder is required for entry. These categories are intended to indicate easily understood segments of the world of work.

The first digit of the NOC code normally designates the skill type. See chart below. For example, Occupations Unique to Processing, Manufacturing and Utilities start with the digit 9. Managerial occupations, which are found across all skill types, start with 0. Remember that an occupation that is coded with a first digit of 1 through 9 refers to the skill type of that occupation. An occupation that has a 0 as the first digit indicates management.

Chart: The 10 skill types that make up the first digit of an NOC code.

NOC Skill Types

Skill Type	Occupation
0	Management
1	Business, Finance and Administration
2	Natural and Applied Sciences and Related Occupations
3	Health
4	Social Sciences, Education, Government Services and Religion
5	Art, Culture, Recreation and Sport
6	Sales and Service
7	Trades, Transport and Equipment Operators and Related Occupations
8	Occupations unique to Primary Industry
9	Occupations unique to Processing, Manufacturing and Utilities

Let us look at each skill type in more detail.

0. Management Occupations
This skill type category contains legislators, senior management occupations and middle and other management occupations. These occupations span all skill type categories.

1. Business, Finance and Administration

This category contains occupations that are concerned with providing financial and business services, administrative and regulatory services and clerical supervision and support services. Some occupations in this category are unique to the financial and business service sectors; however, most are found in all industries.

2. Natural and Applied Sciences and Related Occupations

This category contains professional and technical occupations in the sciences, including physical and life sciences, engineering, architecture and information technology.

3. Health Occupations

This category includes occupations concerned with providing health care services directly to patients and occupations that provide support to professional and technical health care staff.

4. Occupations in Social Science, Education, Government Service and Religion

This skill type category includes occupations that are concerned with law, teaching, counselling, conducting social science research, developing government policy, and administering government and other programs.

5. Occupations in Art, Culture, Recreation and Sport

This skill type category includes professional and technical occupations related to art and culture, including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums. It also includes occupations in recreation and sport.

6. Sales and Service

This skill type category contains sales occupations, personal and protective service occupations and occupations related to the hospitality and tourism industries.

7. Trades, Transport and Equipment Operators and Related Occupations

This skill type category includes construction and mechanical trades, trades supervisors and contractors and operators of transportation and heavy equipment. These occupations are found in a wide range of industrial sectors, with many occurring in the construction and transportation industries.

This category includes most of the apprenticeable trades, including all of those related to the construction industry. Other occupations in this category usually require completion of college or other programs combined with on-the-job training. Progression to supervisory or self-employed contractor status is possible with experience. There is limited mobility or transferability of skills among occupations in this category due to specific apprenticeship, training and licensing requirements for most occupations.

8. Occupations Unique to Primary Industry

This category contains supervisory and equipment operation occupations in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Most occupations in this category are industry specific and do not occur outside of the primary industries.

9. Occupations Unique to Processing, Manufacturing and Utilities

This category contains supervisory and production occupations in manufacturing, processing and utilities.

NOC 2001

You now know how occupations are classified according to a work domain that is called skill type. We will now learn how the NOC further categorizes occupations according to different levels of skill required within each skill type.

Skill Level

Skill level, in the context of the NOC, corresponds to the type and/or amount of training or education required for the work of an occupation. The NOC consists of four skill levels identified A through D and each is assigned a numerical value ranging from 1 to 6. To illustrate this concept, have a look at the chart below to see the relationship between the alphabetical value of each skill level and its accompanying numerical value.

The skill level is primarily based on the nature of education and training required to work in an occupation. This criterion also reflects the experience required for entry, and the complexity of the responsibilities involved in the work, compared with other occupations. In most cases, progression to skill level A from B is not usually possible without completion of additional formal education, whereas progression from skill level D to skill level C is often achieved through on-the-job training and through experience.

Each skill level is intended to reflect commonly accepted paths to employment in an occupation. Where there are several paths to employment, the skill level is identified as the most commonly demanded by employers, considering the context of the occupation and the trends in hiring requirements.

For Trades, Transport and Equipment Operators and Related Occupations, skill level B occupations may be coded with either a 2 or a 3. The reason for this is that there are more than 9 minor groups within the major group. When there are more than 9 minor groups within a major group, the skill level digit is increased by one but corresponds to the same alphabetical character. The same applies for skill level C among the Occupations unique to Processing, Manufacturing and Utilities where the second digit can be either 4 or 5. We will discuss Major and Minor Groups in more detail shortly. For now, just understand that the second digit of the NOC code represents the skill level of an occupation.

Chart: The 4 skill levels (both alphabetic characters and numerical values) used in the NOC.

NOC Skill Levels

Skill Level (alpha)	Skill Level (digit)	Nature of Education/Training
A Occupations usually require university education.	**1**	❑ University degree at the bachelor's or master's or doctorate level.
B Occupations usually require college education or apprenticeship training.	**2 or 3**	❑ Two to three years of post-secondary education at a community college, institute of technology or CEGEP; or ❑ Two to four years of apprenticeship training; or ❑ Three to four years of secondary school and more than two years of on-the-job training, specialized training courses or specific work experience. ❑ Occupations with supervisory responsibilities and occupations with significant health and safety responsibilities, such as firefighters, police officers and registered nursing assistants are all assigned the skill level B.
C Occupations usually require secondary school and/or occupation-specific training	**4 or 5**	❑ One to four years of secondary school education; ❑ Up to two years of on-the-job training, specialized training courses or specific work experience.
D On-the-job training is usually provided for occupations	**6**	❑ Short work demonstration or on-the-job training or ❑ No formal educational requirement.

Review

By now, you understand the importance and the practical nature of the NOC. You also know the two basic concepts that make up the structure of the NOC – Skill Type and Skill Level – and understand the purposes for each.

To facilitate your learning, try the online quiz. This first quiz is designed to help you identify areas of difficulty you may be experiencing with the material. It is comprised of 15 multiple-choice questions that review the material up to this point. You are encouraged to use all the NOC resources you have available, or the NOC website. Note that the quiz is voluntary and no personal information about you is recorded. It's fun, give it try.

Management Occupations

Management occupations are not assigned to a skill level category. Factors other than education and training (e.g., previous experience, ownership of real property and capital, ownership of intellectual property, inherent decision-making skills and organizational capabilities) are often more significant determinants for employment in management occupations.

Management occupations span the skill types of the entire classification structure and are found in all areas of the labour market. An NOC code that begins with a zero represents senior, middle and other management occupations. When the second digit is zero, then this represents senior management occupations, that are not, categorized according to specific skill types. The skill types for all other management occupations are identified by the second digit of the NOC code corresponding to skill types 1 through 9.

To illustrate this concept let us look at the following:

- Management occupations in sales and services begin with 06. The 0 indicates that it is a management level occupation and the 6 indicates that the occupation falls under the Sales and Service skill type.

- Now consider a NOC that has a zero as its first and as a second digit. Similar to the example above, we know that this occupation is a management occupation because it begins with zero. We also know that the second digit for management occupations may reflect the skill type. However, because there is no skill type 0, we can conclude that this is a senior management occupation.

Major Groups

A major group is simply the first two digits of an NOC code. It is a roll-up, or, an aggregation of minor groups (which we will look at shortly). There are 26 *major groups* in the NOC and are classified as follows:

MANAGEMENT OCCUPATIONS
00 Senior Management Occupations
01-09 Middle and Other Management Occupations

BUSINESS, FINANCE AND ADMINISTRATION OCCUPATIONS
11 Professional Occupations in Business and Finance
12 Skilled Administrative and Business Occupations
14 Clerical Occupations

NATURAL AND APPLIED SCIENCES AND RELATED OCCUPATIONS
21 Professional Occupations in Natural and Applied Sciences
22 Technical Occupations Related to Natural and Applied Sciences

HEALTH OCCUPATIONS
31 Professional Occupations in Health
32 Technical and Skilled Occupations in Health
34 Assisting Occupations in Support of Health Services

OCCUPATIONS IN SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION
41 Professional Occupations in Social Science, Education, Government Services and Religion
42 Paraprofessional Occupations in Law, Social Services, Education and Religion

OCCUPATIONS IN ART, CULTURE, RECREATION AND SPORT
51 Professional Occupations in Art and Culture
52 Technical and Skilled Occupations in Art, Culture, Recreation and Sport

SALES AND SERVICE OCCUPATIONS
62 Skilled Sales and Service Occupations
64 Intermediate Sales and Service Occupations
66 Elemental Sales and Service Occupations

TRADES, TRANSPORT AND EQUIPMENT OPERATORS AND RELATED OCCUPATIONS
72-73 Trades and Skilled Transport and Equipment Operators
74 Intermediate Occupations in Transport, Equipment Operation, installation and Maintenance
76 Trades Helpers, Construction Labourers and Related Occupations

OCCUPATIONS UNIQUE TO PRIMARY INDUSTRY
82 Skilled Occupations in Primary industry
84 Intermediate Occupations in Primary industry
86 Labourers in Primary industry

OCCUPATIONS UNIQUE TO PROCESSING, MANUFACTURING AND UTILITIES

92 Processing Manufacturing and Utilities Supervisors and Skilled Operators

94-95 Processing and Manufacturing Machine Operators and Assemblers

96 Labourers in Processing, Manufacturing and Utilities

As we have learned, the first digit represents the skill type for an occupation and the second digit of the code generally separates occupations according to skill level or the type and duration of training required. Therefore, we can have several major groups within each skill type. In the example of sales and service occupations, there are three major groups:

62	Skilled sales and service occupations
64	Intermediate sales and service occupations
66	Elemental sales and service occupations

Minor Groups

At the three-digit level, the major groups are further divided into 140 *minor groups*. For example, major group 64, Intermediate Sales and Service occupations, includes eight minor groups:

641	Sales Representatives Wholesale Trade
642	Retail Salespersons and Sales Clerks
643	Occupations in Travel and Accommodation
644	Tour and Recreational Guides and Casino Occupations
645	Occupations in Food and Beverage Service
646	Other Occupations in Protective Service
647	Childcare and Home Support Workers
648	Other Occupations in Personal Service

By now you have probably realized that each digit of the NOC code helps to further specify an occupation. At the minor group level, you can pinpoint a domain in which an occupation is carried out. However, we need to go one step further to identify an actual occupational group.

Unit Groups

At the four-digit level, the system is expanded into 520 occupations identified as unit groups. Unit groups are simply a more specific occupation as opposed to occupational domain denoted by the minor group code. To continue with the same example from above, minor group 643, Occupations in Travel and Accommodation, is further divided into five unit groups:

6431	Travel Counsellors
6432	Pursers and Flight Attendants
6433	Airline Sales and Service Agents
6434	Ticket and Cargo Agents and Related Clerks
6435	Hotel Front Desk Clerks

You have now learned the structure of the NOC and how codes are related to skill level and skill type. The question now is how do you find these codes to use in practical terms. This question will be answered in the following section that will introduce you to the NOC tools that you can use to code and describe occupations. We will begin by looking at the *Occupational Descriptions* binder that contains all of the information that you need to code occupations. We will then look at the NOC Matrix – a tool to help you see the entire NOC structure. Finally, we will discuss the importance and usefulness of the *Index of Titles*.

Occupational Descriptions

By now, you understand the need for occupational descriptions. Whether you are an economist analyzing labour market data for a specific occupation or an employment counselor helping someone determine what type of training to take, occupational descriptions help us understand an occupation using a standardized language.

Occupational descriptions are published for each of the 520 unit groups included in the NOC. Each description is referred to as the NOC group. Each description includes the following important elements:

Lead Statement

The lead statement provides a general description of the occupation and the boundaries of the unit group. It indicates the kinds of industries, workplaces or establishments where the occupation is found.

Example Titles

Example titles are the occupational titles commonly found within the group. This list is not exhaustive. A more complete listing of alphabetical job titles can be found in the NOC *Index of Titles* that will be discussed shortly.

Main Duties

The main duties section describes the most significant duties of the occupations in the group. It may include:

- a series of statements that can be applied to all occupations in the group;
- two or more sub-sets of occupations with statements that apply to each component; and/or
- a series of brief statements that are linked to specific occupations, that, while similar enough to be in the same group, can be described separately.

Statements in Italics, at the end of this section, identify a specialization that may exist within the occupation.

Employment Requirements

Employment requirements are prerequisites generally needed to enter the occupation. Several types of requirements are listed:

- type and level of education, starting with the lowest possible requirement for entry into the occupation;
- specific training required, including apprenticeship, on-the-job or internal training;
- experience in a related occupation, especially for supervisory or managerial occupations;
- licenses, certificates or affiliations; and/or
- other requirements not dependent on formal education, such as athletic abilities, artistic talent or presentation of a portfolio.

While some occupations have very specific employment requirements, others have a wide range of acceptable requirements. The following terminology is used to indicate the level of the requirement.

- *"Is required"* indicates a definite requirement.
- *"Is usually required"* means that the qualification is generally expressed as required by a majority of employers, but not always mandatory.
- *"May be required"* describes requirements that some employers may impose but are not universal.

Qualities related to personal suitability that may have an impact on employability are not described in this publication. These factors are subjective and are best assessed during the hiring process.

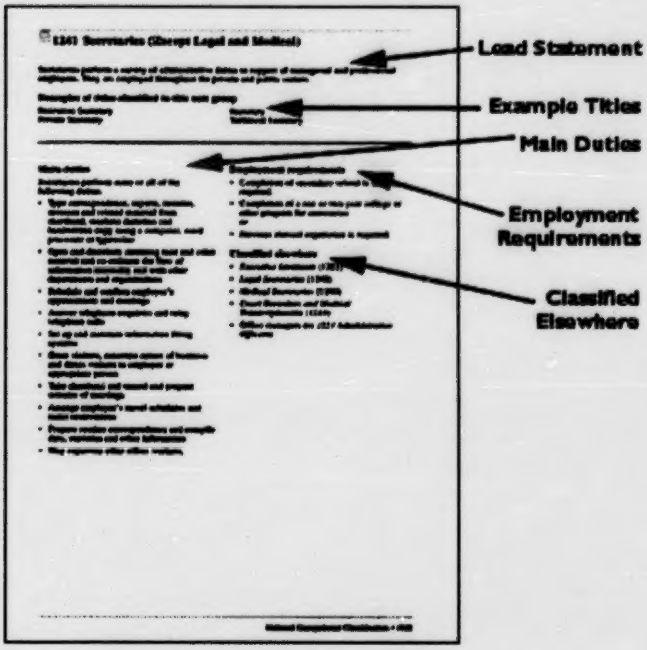
Additional Information

Some descriptions include additional information in the following areas:

- progression to another occupation;
- mobility patterns;
- trends and anticipated changes in employment requirements; and/or
- other information that may clarify the occupational description.

Classified Elsewhere

The classified elsewhere section helps to clarify the boundaries of the unit group by identifying similar groups or occupations that are separately classified.


Lead Statement
Example Titles
Main Duties
Employment Requirements
Classified Elsewhere

The Matrix

A chart called the *NOC Matrix* shows the major and the minor groups, and the relationship between skill types and skill levels. This provides an overview of the entire classification structure. The *Matrix* is included in the NOC. It may also be viewed on the Internet by visiting www.hrdc-drhc.gc.ca/noc. The skill types are represented in the columns while the skill levels are found in rows. Managerial occupations are found in the top portion of the chart, indicating the presence of management across all segments of the labour market.

While the Matrix can be helpful in identifying Major and Minor groups, it does not identify Unit groups.

Index of Titles

As useful as the unit group headings are, they don't always correspond with the real-world job titles we use every day. For this reason, the *Index of Titles* is a tool used to look-up occupational titles that do not appear in the occupational descriptions.

Scope of the Index of Titles

The index contains thousands of titles classified within the 520 occupational groups of NOC 2001. With millions of people in the employed labour force, it is impossible to capture all of the individualised job titles that could potentially exist. While the listing in the index is not meant to be exhaustive, it provides extensive coverage of commonly used and understood titles in the economy as well as the more obscure and specific titles found in many occupational areas. Some of the most commonly used titles in an occupation are listed within each NOC unit group description.

Approximately 20,000 titles included in the index have been carried forward from the original NOC, published in 1992, as they are still currently used in the labour market. Many new and additional titles are contained in the revised NOC 2001. These titles have been collected in ongoing occupational research conducted throughout the decade since the implementation of the first edition.

To assist users, the index includes both formally recognised occupational titles (radiography technologist) and less formal titles that are in common usage (X-ray technician). Some titles represent ***occupations*** (librarian; chef), while other titles refer to ***specialisations*** within an occupation (music librarian; pastry chef). Still others correspond to a range of jobs (furniture assembler; sawmill machine operator).

Inversions

Occupational titles appear in the index both in natural order (travel agent) and in inverted order (agent, travel). Inverted titles use a comma as a separator in the title string. To facilitate the location of particular generic titles, such as clerk, director, supervisor, etc., many inversions have been included.

However, when an occupational title is modified to provide more specificity, such as, ***criminal*** lawyer, ***tax*** lawyer and ***real estate*** lawyer, and are all classified in the same NOC unit group, the index includes the modified titles in natural order. It also includes the generic title, lawyer, but does not list all the inversions. When the modified titles are classified in different NOC unit groups (chemical engineer, civil engineer and industrial engineer), inversions are included in the index to assist users in finding the appropriate unit group from the range of choices.

Modifiers

Industry, institution or subject matter modifiers are added to many titles. This information is attached to the title following a dash (customer service supervisor – retail; electronics mechanic – avionics) to provide a means of differentiation among titles. The extensions provide further information often to clarify the placement of titles in the classification structure (painter – visual arts; painter – motor vehicle manufacturing). These modifiers should be considered when coding an occupational title.

Military Titles

Titles of military occupations are indicated by adding the modifier ***military*** after a dash (sonar technician – military). In a very few cases where military appears in the title itself (military police officer; military pilot) the modifier is not added.

When a military occupation includes more than one NOC unit group, the title has been given a descriptive modifier in brackets as well as the military modifier, for example, medical officer (specialist) – military.

Concordance Between Languages

The terminological research conducted for the translation and adaptation of the titles contained in this revised *Index of Titles* has dealt with a component that was not addressed previously. Concordances for all titles in both official languages have been identified. Two levels of concordance between English and French titles have been established. In some cases there is a unique, one-to-one correspondence between a title in one language and a title in the other language. The other level of concordance identifies correspondence between one title (or several where there are equivalent titles) to many titles in the other language.

Try the second online quiz.

Putting It All Together

Now that you have a clearer understanding of the structure and concepts surrounding the NOC, it is time to put what you have learned into practice. The remainder of your learning will bridge the gap between theory and application. We will concentrate on learning how to code an occupation based on minimal criteria. This will enable you to better understand the powerful uses of the NOC. Finally, we will learn advanced tips and strategies to classify some of the more difficult occupations. So let's go…

Learning to Code

The numerical hierarchy of the NOC is based is familiar to regular users of statistics. It offers the convenience of describing the entire structure, and all its underlying definitions, with one number.

It is important that all users learn how to properly code. Accurate coding is especially important to users who depend on data that is collected using the NOC. For example, when analyzing Census occupational data, an economist must be aware of the potential impacts of coding error.

Understanding how coding works will help users recognize errors, why they are made and how to avoid making the same errors in the future.

Before we start learning how to code, let us recapitulate what we have learned up to now.

The usefulness of the NOC occupational definitions is enhanced by the fact that each occupational code reflects the skills required. This means that the NOC is directly focused on the work performed. Each occupation is defined in terms of the *type* and *level* of skill required.

The type of skill is assigned on the basis of 10 broad occupational areas (0 to 9). These areas combine work type - such as management, work sectors - such as health or sales, and some other characteristics of work - for example, subject matter domains such as natural and applied sciences. The first digit of an occupational code normally reflects the skill type.

The level of skill required is based on the type of education or training needed to perform the work. There are four basic levels: university, college/technical school, trades/training, high school/on-the-job training, and short demonstration training. Skill level is shown as the second digit of the NOC code, except for management occupations.

Together, the first and second digit make-up the Major Group. The third digit of an NOC code reflects more specificity related to the area in which an occupation is carried out. The first, second, and third digit make-up the Minor Group.

Unit group refers to the four-digit NOC code. The four-digit code represents the occupation within the area represented by the Minor Group.

If you're thinking, "Ok, I already know all of this" that's great – you are almost an expert in the NOC. Your last challenge will be to apply what you have learned up until now.

Classification Criteria

As much as a classification system is important, it cannot deliver valid results without having a reliable method for organizing data. This is the point where learning how to properly classify occupations is critical.

The easiest way to classify occupations is achieved most often by using the *Index of Titles*. While this is an easy method, it is not necessarily the most reliable method. The person coding an occupation must always keep in mind that occupational titles defined by only one source do not always coincide with the NOC definition.

For example, most private companies create their own occupational titles without consulting the NOC. Therefore, a "customer service representative" who works for a particular company may in fact be a "telemarketer" according to the NOC. This case exemplifies one of the major fallacies of the coding practice – the assumption that all occupational titles and descriptions are universal or standardized – they're not and the coder must recognize this fact.

Unfortunately, there is no simple formula or recipe to identify whether an occupational title or description is the same as the title and description in the NOC. However, we will discuss the most important criteria to consider when assigning codes. You may inevitably come across any of the following challenges when coding:

1. Coding an occupation with only a job description

Let's consider the following example to code an occupation using skill type and skill level:

In this example, a personnel administrator in a large corporation wants to find the occupational code for a proposed new position within the company. The duties indicate the new position is assistant to a senior executive and it has been decided that a community college diploma in business administration will be required. The company wants to use the NOC to classify their new position. The NOC may also be used to assign a title to the position. Here is how the administrator would locate the occupational code for the position.

The administrator identifies the skill type and skill level specified in the job description and consults the *Occupational Descriptions* binder. Starting with the skill type, she concludes that the occupation is part of the group called Business, Finance and Administration Occupations, all of which start with the digit 1.

Next, she considers that community college graduation indicates skill level B, which can be reflected as either a 2 or a 3 in the second digit of the code. She finds three *major groups*: professional (11), skilled (12) and clerical (14), so the position will be in Major Group 12: Skilled Administrative and Business Occupations.

Next, she considers the four minor groups in this category which are delineated by area or domain of work:

121	Clerical Supervisors
122	Administrative and Regulatory Occupations
123	Finance and Insurance Administrative Occupations
124	Secretaries, Recorders and Transcriptionists.

The new position is not supervisory and does not involve finance or insurance, so the choice is between *minor groups* 122 and 124. After reviewing the 8 unit groups included in Administrative and Regulatory Occupations, the administrator finds that the most relevant unit group is 1222 Executive Assistants. The NOC description of duties includes such elements as analysis, research and meeting independently with clients. The proposed position is oriented more towards handling correspondence and scheduling meetings on behalf of the executive and therefore, she decides that this is not the appropriate code.

Turning to minor group 124, the administrator finds that *unit group* 1241 Secretaries (except Legal and Medical) is a possibility, since the other unit groups in that category are specialized. The duties listed in the Occupational Descriptions for NOC 1241 Secretaries closely match those listed in the new job description. Also, the description indicates that completion of a one or two-year college diploma is a typical requirement. She checks the "classified elsewhere" section and finds that none of them are appropriate, and codes the position as 1241 Secretaries. Using the example titles, she assigns the "executive secretary" title to the company's new position.

7021

2. Coding an Occupation Using the title and description

In this example, a paralegal in an immigration lawyer's office wants to find the occupational classification code for a client who is seeking to immigrate to Canada. He knows that the client assists with patient care in a dentist's office, and that she will be seeking similar work in Canada. Here is how he would locate the code for her occupation.

The paralegal knows that the title of the client's previous job in another country was "Clinical Assistant". He uses his copy of the NOC *Index of Titles* and looks at the listings. Clinical Assistant is shown with a reference to Unit Group 3414. The paralegal locates the entry for classification 3414 in the NOC *Occupational Descriptions* binder, and he discovers that this group does not include dental occupations. He looks in the index again, this time under "dental". There are nearly 40 titles beginning with the word "dental". There are a number of assistants listed in the dental field, but dental assistant and dental clinical assistant both refer to the same unit group, which is 3411.

The paralegal locates the unit group 3411 in the NOC. The duties and education requirements are very similar to the experience and qualifications outlined in the client's resume. The paralegal checks the "classified elsewhere section" and sees that there is also a related occupation called 3223 Dental Technicians. He reviews that description and notes that the duties relate to the manufacture of dentures, which is not relevant to his client. After reviewing all of the dental related occupations and their descriptions, the Paralegal concludes to code the occupation as 3411 Dental Assistant.

3. Coding an occupation with only the title

Occasionally, the only information you will have in order to assign an NOC code is the title of an occupation. In this case, when there is no way of obtaining additional information, use the Index to search for the occupational title or for the closest approximation and use the corresponding NOC code. Be sure to look at possible inversions as well.

When titles do not appear in the *Index of Titles*, assign an NOC code that reflects as closely as possible the essence of the work. For example, the title 'forensic scientist' or its inversion 'scientist, forensic' does not appear in the Index of Titles. In this example, we would assign a 2 (Natural and Applied Sciences) for the first digit given that scientist forms part of the occupation title. Secondly, we can assign digit 1 as the second digit of the code because scientists are classified in skill level 1 of the NOC. Third, we narrow our search by looking at the minor groups for Major group 21. We have several options; however, there are two that more closely relate to the occupation that we are trying to code: 211 – Physical Science Professionals or 212 – Life Science Professionals. At this point you must exercise your own judgement as to which minor group and unit group you choose.

Remember that the NOC is as good as the person using it. Guessing should be avoided unless it is absolutely necessary.

Coding Tips

- ☐ Apprentices are coded in the same group as qualified workers.
- ☐ Residents and articling students are coded in their respective professional groups.
- ☐ Supervisors of professionals are usually classified within the occupational group they supervise, in skill level A.
- ☐ Supervisors of other occupations are usually classified in specific unit groups in skill level B within the same skill type as those supervised.
- ☐ Proprietors of small businesses, self-employed contractors and supervisors in most industries are usually classified as skill level B.
- ☐ Management occupations start with 0 and the second digit of the major group classification indicates the skill type rather than skill level for middle and other management occupations.
- ☐ In certain cases, you may consider the wage that a person is making to help you code their occupation. For example, a person may indicate that they work as a manager in a retail store. If the person is making minimum wage, this may be an indication that the occupation is supervisory rather than managerial.

NOC Challenge

Congratulations, you have completed the NOC training tutorial. You are now invited to take the NOC Challenge. Similar to the two quizzes, the NOC Challenge provides you with feedback about your knowledge and ability to apply the NOC. The NOC Challenge is comprised of 25 multiple-choice questions directly related to what you have learned. Users who take the Challenge and score 75% or more will receive a Completion Certificate at the end of their online session. While the Challenge is voluntary, we strongly urge you to try it. Other than your name and e-mail address, no other personal information is recorded and your score is only for you to see.

Using the *Career Handbook*

The *Career Handbook* is currently under revision to reflect the changes that have been made to the 2001 version of the NOC. In the meantime, to ensure proper concordance of occupational information, the *Career Handbook* should be used in conjunction with the 1992 version of the NOC. The 1992 version of the NOC will continue to be available on the Internet until the revised Career Handbook is made available in the summer of 2002. We apologize for any inconvenience this may cause.

The *Career Handbook* is the counselling component of the NOC. It describes the links between the occupational content of the NOC and the characteristics of workers that are best suited to the occupation.

Purpose

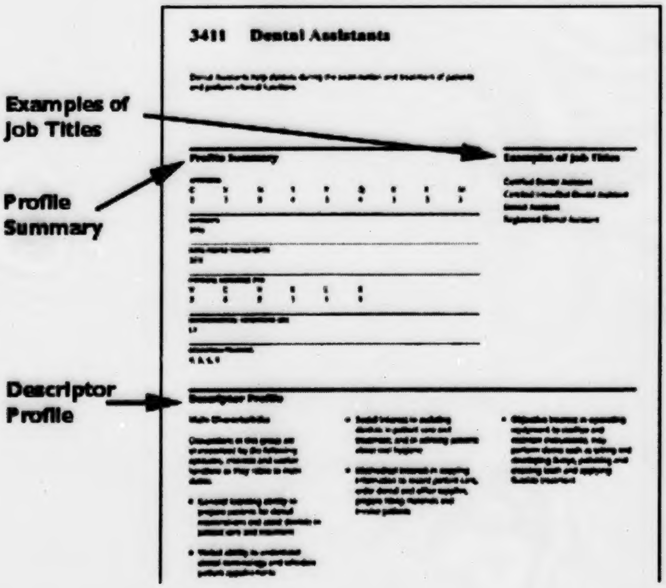
The *Career Handbook* provides relevant and accessible information about the wide range of occupations that make up today's world of work. Each occupational group is rated in terms of skills and other variables that are widely regarded as useful for career exploration.

The occupational profiles contained in the *Career Handbook* are designed to help counsellors and their clients investigate occupations and make informed career decisions. The descriptions are based on the concept of *occupations*, which are collections of jobs that share similar duties. They are not intended to apply to individual jobs, which are unique and specific situations that vary among establishments.

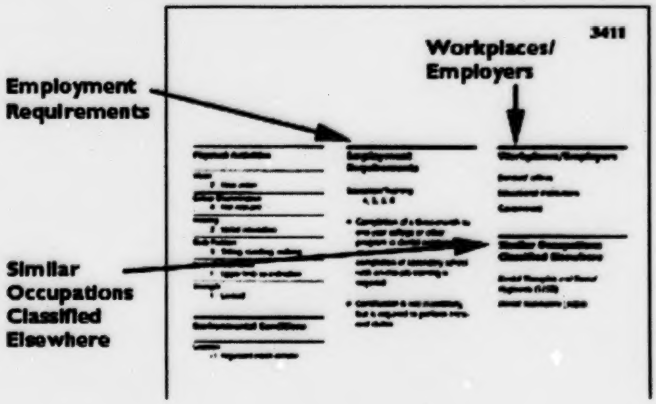
Organization

Profiles found in the Career Handbook follow the organization and content of the NOC Occupational Descriptions, but they include several items of additional information. Most importantly, they include additional subgroups for many of the NOC unit groups. The subgroup number is appended to the unit group code and separated by a period. For example, 6642.3 Dishwashers, is one of three subgroups of code 6642 Kitchen and Food Service Helpers. The other two are 6642.1 Kitchen Helpers and 6642.2 Food Service Helpers. These subgroups portray occupations that are often more meaningful for counselling purposes than the global unit group from which they are derived.

In addition, this publication includes standardized statements of the personal characteristics that are associated with the occupation. These are expressed in terms of rating scales widely used by guidance counsellors. The profiles include ratings of aptitudes, interests, functional activities in terms of data/people/things (DPT), physical activities, environmental conditions and education/training, as well as a description of the main attributes necessary to perform the work in the occupation.



3411 Dental Assistants



Summary of Descriptors

NOC Career Handbook

Aptitudes	An individual's overall capacity to learn the skills needed to perform the occupational duties. Nine aptitudes are rated on a five-point scale.
Interests	Five interests are rated, as measured by the Canadian Work Preference Inventory (CWPI): Directive, Innovative, Methodical, Objective and Social. Three of the five interest factors are assigned to each group in order of predominance.
Data/Information, People and Things (DPT)	An eight-level rating of the complexity of involvement in interaction with Data/Information, People and Things.
Physical Activities	Ratings for vision, color discrimination, hearing, body position, limb coordination and strength.
Environmental Conditions	Ratings of work locations, hazards and discomforts.
Employment Requirements	An eight-level indicator scale of education and/or training requirements, including identification of regulated and other requirements distinct from formal education and training.

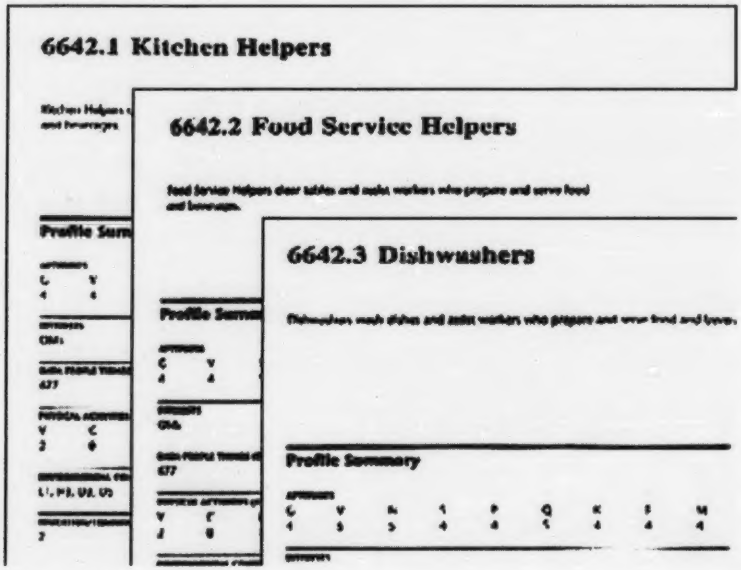
The *Career Handbook* adds another level of detail in the form of occupational *subgroups*. These are more specific occupations for which common titles are assigned. Some of the 522 unit groups in the NOC are further subdivided for a total of 897 occupational groups. This level of detail is used primarily for counselling purposes rather than for data collection. When a unit group is subdivided, a fifth digit is used to identify the subgroups. The fifth digit is separated from the root classification number with a decimal point. For example, unit group 6432, Pursers and Flight Attendants, is further divided into three subgroups:

6432.1	Flight Attendants
6432.2	Flight Pursers and Passenger Service Directors
6432.3	Ship Pursers

Quick Reference: The Fifth Digit

In the *Career Handbook*, many of the 522 NOC unit groups are broken down for more specificity. In fact, the 897 occupational groups included in the *Handbook* are based on the NOC structure and are shown as either four-digit groups (unit groups not subdivided) or as five-digit groups for subdivided units of the NOC. The subdivided units are represented by the four-digit NOC code, followed by a decimal point and a fifth digit. For example, unit group 6642 Kitchen and Food Service Helpers is broken down into three subgroups for the Handbook:

6642.1	Kitchen Helpers
6642.2	Food Service Helpers
6642.3	Dishwashers



6642.1 Kitchen Helpers

6642.2 Food Service Helpers

6642.3 Dishwashers

Profile Summary

The overall structure of the *Career Handbook* is presented in Volume 1, following the Introduction. It shows all of the 897 four and five-digit occupational groups. At the front of each skill type section, the appropriate portion of the classification structure is repeated. For example, in the section on skill type 6, all of the occupational groups for Sales and Service are outlined for ease of use. An additional reference to the classification structure is found on the top right-hand pages of the *Career Handbook*. The code for each group is identified as well as the total number of subgroups for the subdivided NOC unit, e.g. 6642.1 is identified as subgroup 1 of a total of 3.

For more information...

For additional information about the NOC and the related occupational publications, please contact:

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